

US33026.ST25.txt
SEQUENCE LISTING

<110> Rogan, Peter
Knoll, Joan

<120> SUBTELOMERIC DNA PROBES AND METHOD OF PRODUCING SAME

<130> 33026

<150> 60/415,345

<151> 2002-09-30

<150> 60/494,494

<151> 2003-07-03

<160> 251

<170> PatentIn version 3.2

<210> 1

<211> 1820

<212> DNA

<213> Homo sapiens

<400> 1

tgaaagggat acgtttgcgt ctgtcctggt tacttgcttt gtccttcgct ggggctttca	60
ctgtgccaca tctcactgta gggatgcttt ctgtgctaag cttgtttcag tattcaaacc	120
ttcattttgt aagaacatga cagagcacct gccatggcat tcacgcagggt agggctggag	180
gcagccaccg acgtttgtta attgcagagt tttaactcaa gggggacaga tgatctcagg	240
acagaatgac aagctgagtg acagcaggag ggacgtcacc gtacaattct ctccactttt	300
ctgtaagttt gaaaatcctc acagaacacc cagaggcaca cagtgtcctg aagtggaaac	360
ggccaggaca gtgtcctttc tctttgttgg gctgcaattt ctggacttct gtacaactct	420
gaccagctgc ctgtcccctc ctttcccagg gtgaggtagg agccactatg gcaggtcggg	480
gtcagggaga aacaaacggg ggatctgcgt ggagtcggcc tccccggct ccccgggcg	540
tcgggatgct ggggtggggg cccactgtc aagaaccagt ttagtgcgac tgggaaatct	600
ggacacttgc tggttctagg gagaggaagg tggaattagg aattcccttg ggattgggag	660
cgtcaggaaa atatcctttt tgttttaaga ggtgtgtatg taaagtctgt gggacaacgg	720
gaagggatgt cttttgacta attacctaaa ccaaattgg agcaactatg ataacagttc	780
aatgctttta gacaaagtgg ggggtgtgcg ggcaagcact ccctcatctt ggccgaaatt	840
tttctgaaga aaccgcgtta gtctcaatca gcagcatcag gactgacagg aagaagcagc	900
cgccaccgc gccccaacct tgcctgcct cggcgaggtc agaccctcac gcacagttcc	960
ctgcctccca ccactacctc cggccttctc agccctgtcc acggctcctg cgggtgggctc	1020
ggccttcgat gtcagggacc tccccgccat ttctctcag ctcgccagcg aggggtgcctc	1080
gggagggagc ctccagtggg gattggagca accgccgctg ggggcaggac tccaggcagc	1140

US33026.ST25.txt

gcgcctgcgc aatgcactcc tgcgcgcgcc tggagatgtg aggtaattct ccggcaggcc	1200
tgcgtggcac tagtgcgcat gcgtaaaggg gcgagggcta caaacgcggc gggaaagccc	1260
ccagggccac gtgcggccgt ccaggcttgc gattggcccc ctgccgggtg cccccgcgca	1320
tgtgcgctgg cttccgaggg gaccggccct ggttctggag gccctcccca ccaacgagca	1380
gtacgcatgt gtagcgccga agcttcctgt gaagtgtgctg tgtctgacgg atgacgactc	1440
cacaaggcgc tgtggccctg gcagcctcat gaggttgctg ctctgcggga ccacaccgcc	1500
gcgggagtg acgggcccc gcgagtgaat tctgcggcag cccccgctgg gcccgtgtt	1560
cctgcgcgcg cagaggagcg tagcctgccc ctaggccgcg ttcccgtgag ctccatgccc	1620
acagtggccg aggccggcca caagcccacg gtcccttctg cacgggtccct gccgcgctgg	1680
ggccaccgtg gagggccgga gggccctggg aggagggagg aggagcagag gctttcggga	1740
gaaccagcc cttaccggc caggggaggg cgcgatgcat cgcgactggt tgtgaagagc	1800
caggggaaga actttaccgt	1820

<210> 2
 <211> 2052
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1704)..(1803)
 <223> n is a, c, t, or g

<400> 2	
attctgaccc ttgcccagcc tacgtctcgg gcagcaccgc tgaggacacc ctccaggtgc	60
cggagaagca ggctctggct tccagctttg tttctaggaa cacatttaaa ggaaacttcc	120
taagtgagag ctgcacagaa ttttatctcc gcagttctga tctttcatgt atgtgactga	180
gagaggtcaa gtgaggggccc aaaaaaaaaa aaaaaaaaaa acaaggcca agaagcaaag	240
caagctggga cgtgagaact ggggagggct tgctcattgg tcaggtgttc acccacgtgc	300
gtgtagaaac gtgctcttgc atgtgctggg gatgcgtcca gggctgagga ggaggagggc	360
cggcgctgtt tataagatgc cagttcttag cacgcctccc acatgtgctg ctgggagcca	420
ttcaggaagg ggggcgcctc atgggacagg acaggtgata aggggagtga ggggtgtcctt	480
ggccagacat ggggctttgt ccaacagcac ggcaggccgc ggtaaccgga gggagggcac	540
acgtgctgcc accgtgggag gaggtctggc ccagacatgc tcttctccag tgccctctgc	600
ttcctcatag aagcaggaag ctcaagtcca gagagaatgc ggcggaagga ggacgcatga	660
gacaagtggc ctctcggact ggggacgccc agcagtgcca gggcctgctt gagatgaggt	720
gtcaagaaag gagaccaagg ccacacagct ccacgaggcg tctttctcta gctgcatccc	780

```

gccagtgcgg agggggcacag tggcagggag ttaagagcca gccagggcgg gctcattctg      840
aacacaatga ggcaaaggtg tcaagttcca ttgtttgctt tctgatctga aataaacaca      900
tgatctcttg gctactgtgt cctgatgctg ttgtttgtac actacttcct gtggaggtct      960
ctgccatttt cctgggtgaag gacttctcag taataaaagc aggaacgtgg aaagcaaact     1020
caagagccaa gaaataaaga aactcagtc atacacatta tgtgtttaaa tcttttcaga     1080
attatttgag gacaatctat tatacttccc taaggaagtg ccattttgta attgtgagct     1140
ttcatggact catttgagcc ataaagctta cctcacgcta tttcccaggc aatcataact     1200
cactcagctc aaaccgggtg gtggcagatg gagggcatgt gagcagttct gatgggtgtca     1260
aggcaagcca aggatacata acagaaaagt aacctggatc tcggaggaca ctcaactcac     1320
ctctccaagg tgtgagtccc ccagcgggtc ttttgtttct gggttggcaa ttataatccg     1380
aacccttga agtatctatt tgggagagga aaagtctctt gtcaatggga ggaatacagg     1440
gagagactac acacaagcca acctcaatct catctttatg ccatttcctt tcaagactgt     1500
ttagaaagca attaaatcaa aactatatgc cacatagtta tgaccatta tacaaccaca     1560
gcctcacaat cacagcctca caatcacatt ctactgtaa ctgtcaatat tgtatgctgt     1620
tatggtgacc tcaaaattaa acattttgat tgtcagtcac acaggtttct ttagaccggg     1680
agtgaggctt gcaacgctag ttcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     1740
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn     1800
nnnaggaaac actgggaatt ttagttgttt aatgtattat ttaagatatt tacatagact     1860
aatattacat ctcatcatc ggcacacaca tggatggagg gtgatgcttg cagtaatcgc     1920
tgaaggaagg gagtcacata gtgacatttt caggggtaag catggactcg aagataaccc     1980
aaaatgcttt tggcaaatg atatagtagg cagctgctct ggtggtgcca gaagggaag     2040
attgtgggtc aa                                                    2052

```

```

<210> 3
<211> 2527
<212> DNA
<213> Homo sapiens

```

```

<400> 3
agatactggt ctcatcttg ggcagtttct gccaggtttt tacatctgta gcattcaaca      60
aggcctttta caagctgcag ggtcataaaa gtggagttac atgtgtgagc agtgtctctg     120
ttacaatgag gaaaagataa acgggaagat agtctgtaag aaaaaatatt tttctcctta     180
ctctcathtt acatgaagga tgcagtggaa ttctgtttct tgtaaagtgt ctaattttct     240
tactcaggct ttaatgggaa acctggtgag tgagcagggc cctctgcaga gagcaggctt     300
ccctggggga ggtgccaga atgggctctg gtccccctgc ctaccttggg cacagcaggc     360

```

US33026.ST25.txt

agtcacgggc	accatgagtt	ttgcctctgc	cacgccctct	ccacccccct	gcccaccctg	420
gggggagccc	ctcacaaaac	cactccttct	gggcatttca	catcttgtcc	taaaggaaaa	480
cagctggaag	agaaggagag	agcaaaaaaa	gaaaagaaat	catctattaa	atatcagtct	540
tgttttgaca	aaatcataaa	ttaattgtat	gcatattcta	aacattgatc	ttccagaaat	600
tttattacct	gtgtaaactt	ttagaattta	actatgttac	ctaaattctg	aaaaggcttt	660
ctgctttcct	atcagtttct	ctcaaagatc	acagtggact	tcgtggattg	acacatgaaa	720
ggtagcaatt	gttgtaata	ataataaagt	catagctaata	atacagttga	gaactgaaag	780
ggcaaataat	tgtatagagt	ctcattccca	aaccttttat	tcattggtaa	agtcctggct	840
agtgtccaca	aaaacctact	tttccagctc	cctccaccct	ctcaagctgt	tgccctcact	900
gttcagtaac	taaatagccc	tgaactgttg	acgttggtat	cctgaaatcc	ataaatacaa	960
gaccattcag	taaaaactcc	agcaaacaga	aaaatcagaa	atacaagtgg	cttgctaatt	1020
taagaattta	cttcaaccac	tggaaagtaa	taagttaaaa	tgaataaatt	aaaaacacaa	1080
gatgttttct	ttttttcgta	tctgcagcca	tgtctgggga	caaacaaatt	cctttgaaag	1140
ataacaatgt	tattgatttg	gaatgtcact	gcaaagaaat	gaaagagtaa	ttccaaagga	1200
aggtaatctc	taaaagttga	gaggaaatat	ctttttatct	tgattccaat	gatgaaatac	1260
aacattattt	cattatTTTT	gttacatTTT	atcctacttg	aatttaacat	taagtttgga	1320
ataaagtctc	taagacagga	tattacaagt	aacagaacac	aagaaaaatc	cttcattaag	1380
ggtcactacc	aatctgttaa	aacatgagtg	gggtgtgggta	cacttccagc	ccttctgtca	1440
acgcttgcaa	gaagatagaa	taaatagcat	tccaccctct	atactgacac	atctcctgaa	1500
aactactgtt	atcatttagg	tcaatttaac	acactgaaat	acatctttta	tggtgatcac	1560
attctactgt	agaatttgaa	ttaaggccct	gtctgtgagt	ttagagtcac	taaagcagca	1620
gacaaatatt	ggtaagtact	tatgttactg	ggcacatgca	ttttatttac	atgttggttt	1680
tcactgagac	ataggagggg	tttaccact	atattaagaa	ctttaatcag	aaatccagaa	1740
ggaaaaacac	cagggtgaga	gcatctggaa	aactctaccc	tcaggcatgt	tttcaattca	1800
gcagaaatgt	ggcccctgta	tcttataaac	acttttagtg	cttctttgca	tgagggaaaa	1860
ggtaactagg	agatgatgtt	tattaaggta	agaaacattg	aacactgaag	actccttcct	1920
caattcaaca	aggcaaagaa	ctggtaattc	ctactgagca	ttaattttac	agaggagtaa	1980
aaccaggata	ggaaaaaaat	cacttatgat	gtgtttttta	ttaattttaa	caatgtaaaa	2040
aattatactt	ttgcacatgt	tgctgtgtct	gggattttga	catttgaaaa	ctcaagtgtc	2100
aagtacgcta	ccagttaatc	tttgatttca	tgtttaagagt	ctgcttttgt	tttaattaca	2160
tagtgacatg	gaatttgatg	gaaaggaatc	ccagtttttt	ctatgttcca	taaacgtggt	2220
tccaactaac	gagcttagtt	tagtaagaaa	tgaaatttta	aatgttatta	gtaaaatcta	2280

US33026.ST25.txt

attctatttta	ttatatatttc	aaatgaacac	atttattgag	agcatttatg	ggtacccaaa	2340
accctaaat	gctagtgtt	atttggtact	tagcatgtgt	caggcacatg	cacatacata	2400
catacatcat	catatcatgc	agaagatgtc	ccttacccca	ggacaaacaa	taaagtggca	2460
tggcgggtgc	tgaatggtca	tttgaattac	aatcatctag	gtgagtgagt	gaaagtcaaa	2520
ctcggat						2527

<210> 4
 <211> 3236
 <212> DNA
 <213> Homo sapiens

<400> 4						
atgtttctaa	ctataccttt	atgtgttttt	cctagggcct	ggattccttc	tgaaaacatt	60
caagatatca	cagtcaacat	tcacggtctg	cacgtgaagc	gcagtatggg	ttggaaaaag	120
gcctgtgatg	agctggagct	gcacagcgt	ttcctacgag	aaggagatt	ttggaaatct	180
aagaatgagg	accgaggtga	ggaagaggca	gaatccagta	tctcctccac	cagtaatgag	240
cagggtgagt	tgtctccgga	aggaagtgcc	tattcattat	tacttttaaa	tgcagaaatc	300
ttagtgcaca	ctcctcactg	taatgaacag	atgttgacgt	tctccttccc	ttttttacat	360
ttgtaaaagt	ctctgcaaaa	ctaaaccaa	agcagttcaa	atgaatacat	agatgtaaca	420
atcaatgacc	ttgaccctgc	cagtaccaag	agagttaagt	acaagtgtc	ctctctgaag	480
gtgcgctggc	tctttcaagc	ctacagttac	cagaacagta	aattaagtca	gtggtaactg	540
agtggatgga	aggatgcaaa	aggtagaaat	gtattcactt	ctcacctgtg	ggtccactat	600
gagtgttttc	agcagagaag	tattttctag	tgtctggaat	aatatattac	ttttataatg	660
cccacagcta	aaggctactc	aagaaccaag	agcaaagaaa	ggacgacgta	atcaaagtgt	720
ggagcccaaa	aaggaagtaa	gttgcccacc	tcgcagtatc	cagggtggca	atgaaacagg	780
aaatatattc	aaagtatttt	gtattttcaa	agtattttcaa	agacagtcac	tcttggtgga	840
tacttgtgaa	attcagctgc	tgtcagtcaa	atcatatcca	tcaagttgaa	accagtcttc	900
tgacttccct	gtcattatct	gttaccctgg	aatagcgtac	atgctccaag	tctccatctt	960
aattaagcag	ccgctgacca	aagcttggct	aagtaggaag	ggcacattgc	tattaataca	1020
tttcctggga	gctctgatat	ttttcctaag	tatgattaaa	aacaacacat	ttatccagta	1080
tatcagttgt	gccaacattt	aaaaacttga	aggagactgt	ggttgagctc	agccgtttta	1140
agtgatataa	gccctgcatg	ttttaaaact	gtaaatctgg	gcacatttca	aacacatatt	1200
cagtgagaag	tggtttagga	tttgaggaaa	tgtgttaatg	aatctagtcc	aatgaagtaa	1260
ttataagttg	acaataattt	ttatatctta	taaatttctg	tgtttagttt	attttaaaaa	1320
caaaacttat	agtattgata	agtaaaatta	taaatgaagc	ttatgtttat	aattattgta	1380

US33026.ST25.txt

gctgttaatt	gcatgttctt	ttcattcact	aattggggga	gatttgttta	tttttaaatt	1440
gtggcaaaat	atacgtgaca	tctaccaccc	taactacatt	tttcaaccag	cagttttattc	1500
tatggctatt	atgtatatca	ctgaattttt	atccgaatgg	ggtagttctt	gaactgggtga	1560
attatgtggc	ttcgtttggc	gtctaaactc	ttgtctcacc	ttttaggaac	cagagcctga	1620
aacagaagca	gtaagttcta	gccaggaaat	accacgatg	cctcagccca	tcgaaaaagt	1680
ctccgtgtca	actcagacaa	agaagttaag	tgcctcttca	ccaagaatgc	tgcacgag	1740
cacccagacc	acaaacgacg	gcgtgtgtca	gagcatgtgc	catgacaaat	acaccaagat	1800
cttcaatgac	ttcaaagacc	ggatgaagtc	ggaccacaag	cgggagacag	agcgtgttgt	1860
ccgagaagct	ctggagaagg	taatgcttgt	cgccactgtg	ggtgccctgc	tgcagccggc	1920
actcctgtca	tggttaggct	cctttcactc	atgcatcaac	ccagtagcag	cttttacatg	1980
tagccatata	atgacaccag	tatcttttac	agcatttcaa	gtaataatga	tactttcctc	2040
acctaaattt	tttacacatg	taatgaagg	gaaaaaagg	acctcatgca	agttgtgtta	2100
agtttctgtt	ccagtgtaga	tggctctgtg	taagttgtgt	gctgacgcac	tgtgggttgt	2160
cttttcattc	cagctgcgtt	ctgaaatgga	agaagaaaag	agacaagctg	taaataaagc	2220
tgtagccaac	atgcaggggtg	agatggacag	aaaatgtaag	caagtaaagg	aaaagtgtaa	2280
ggaagaattt	gtagaagaaa	tcaagaagct	ggcaacacag	cacaagcaac	tgatttctca	2340
gaccaagaag	aagcagtggg	taaataccag	tcttttttag	acccttattt	ctgaaaatgt	2400
accacaggta	tgatgcccgt	taattcagaa	ggtagctgtg	gcacatgcag	aagatgtttc	2460
tgaaataaga	tcaaagtga	aatggctcagc	tttagtttta	aaaattttat	taaaagtcct	2520
atgatctctc	aacccagat	cccatattac	tgtgtactgc	tcaggattat	ttgtttaaat	2580
tgagattata	ataccttagt	acatatttat	tacaattaac	ttatataatt	tctccatcta	2640
tgcataatatt	ttatttgggc	aaagtggctg	gccctgactt	ttacctggtg	atttcagatg	2700
ggtaacatcc	aaatgggtgaa	attataaatg	taattatcac	aataaatagt	ttcagatttc	2760
cctgcactta	acatttatac	attagatttt	gttaaagaaa	tcagttactt	ttactttata	2820
gtagtgacat	ctcattgggtc	tctaactacc	ctccctcata	cctgactagt	atcatttgtc	2880
atcgtgtcct	gctcgccagt	ctcatcctcc	ccactagagt	gggagcttct	gagtgcacag	2940
ggccaagtg	ctcgtcctac	agccgccaca	gtgctcagtg	aattagggaa	aagttttgct	3000
cccgaagct	cataacttgg	tttcagtttt	aataaatgac	tatataaagt	tttgtgataa	3060
actaatctt	cattttatca	agcctatatt	atataaatac	acataagctt	ttcatgaaag	3120
aaatatTTTT	aaatctgtga	caaagatttg	gcaagaagga	aaatggaaac	ttcgaataga	3180
tgaagataac	ttggtaggaa	gagctggtga	ataacaaaat	aaatattgtt	aacaaa	3236

<210> 5
 <211> 2133
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (405)..(504)
 <223> n is a, c, t, or g

<400> 5
 agttaagctc agctcactct gtggcactac ctgggccgag cagagggaaa gtaagggagc 60
 gacaggaatg gcttgtgaat gtgaaggcga gccgtgaatg tctgcgtctt ggagtggaac 120
 ccagagctgc taagggggcg gccaccaaaa cccaaccgt caggccctgc gaaccctttc 180
 aaggcagcct cggcacacgg acaaccgaca agggctctga gcaaggagga cgcacagctc 240
 gagctggctt tgacattcgt gctcagtgtg cagacacgac tgtacacaca aaattaaaca 300
 ggaaaaactc aagtctgggt gacacaaaat acatattcac accccccgca cctctgaaaa 360
 ggaaaacaac atgcagtctg caacagcagg ggttgaagcc caagnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnaagttt tccccggctt aaaaaaggaa gcaataaggg 540
 ctcctattca agagagttat tgtaagtatg aaataaatcc gtaaatggca tcctccccct 600
 ccactaatgt caggatttta ttcgggggta tttatatatg tgccaacaga aaggatcatga 660
 aaatgtactc tctttctaata acaatataga tgaacatgaa tagtgctaac tttttcctat 720
 ataaatacaa aacttaaaat gattgcacaa ttacttatgt tacataaagt tatcttgcac 780
 tttgctttcc tgtccaagct ttatgcatta ggaaaacaat gcaggacaga taaatgtact 840
 gttccgttat tgatctctgt gtagatgaca gaaacacaaa cacaatccat gtatatacaa 900
 agacatacac acatccaaag agtacaaagt cagttgaaat tttatcaaaa ctggtcagat 960
 gattattccc tcctagttac ttggagctaa ggactactta atttaccatg aagatatacg 1020
 tatcaaaatg tccttggttt aaatggaggg aaatactatt attcttacat aatagcaatt 1080
 attaaaaaat gaaacacaac actgttaact gaactgtaaa atgaattgag cttaggggtcc 1140
 agacccagaa atcaggggtct ccagggaaaa taaaagttag cggtctaaatt caaacctacc 1200
 ttcttaaaca ccagtatcaa ataaagttaa catcacctaa gatcttctga aactgaaca 1260
 cttcagaaca ctgaatccac ccaacaaaaa atcaaattta ggatctttca agtagacca 1320
 gtggaatgac aggcatgaa aatattttac attctgggtc gttactgtct gtggtcgtgg 1380
 ggaaatatc acgttaaaaa gattttcata taaaggcagt ttgtaagctt caggtgacgt 1440
 tagattaaac ccaggctttg ttttgaggga ctgttttaac ttcaccccat cacagatgtg 1500

US33026.ST25.txt

ccttcttaga	aaggagtccc	tgtgggctca	cagggcactg	agctgccaag	ggagctgctt	1560
accttgaggg	actctgtttg	cgagcccagc	cccttggtgc	acagctccat	cacggagtag	1620
gagcaaaacg	tgtctcggac	tttgtactga	ctcacggcaa	gaagccacaa	ggcgggggtt	1680
gtttccagct	cagagggcgg	gatcaggatg	gactggtgcc	cagaatacac	actgcagaga	1740
aagaagaggc	tgtcagggcg	ggagctcagc	aaggctggag	ctcagcaagg	ctggagggct	1800
cagggcagca	ctgactccaa	ggaaaaggag	gacttggaac	agcccgtgct	gccatctgta	1860
gaagggcaca	gtaaagccaa	cgctgcaaac	tgcaaccatg	ttcacgaaag	ccttctgaaa	1920
agcaaatacg	tactacagaa	tcattggggc	gttcctacca	ctttgaacac	acatttaaga	1980
ctactaaacg	ctgtgatgct	gtgatgtctc	tcagacctgc	gacatcagca	aactggatcc	2040
tctttcttag	tagaaaacac	agggatcaaa	tttcggttta	aaaaaaaaaa	gtccagcttc	2100
agaacaggag	ctggcaaacc	acagacactt	cct			2133

<210> 6
 <211> 2026
 <212> DNA
 <213> Homo sapiens

<400> 6						
tgagatccta	ttcaatgcta	gacctctttg	cccccagtgg	cacattagat	ggtaaagagg	60
tgtgtggcag	catcaacatc	cctgaacact	ggtaatat	actgacattt	tcttggttaa	120
catgtattat	aaccctgtgt	ctgcttatat	ctttaagcca	actagctcac	tgcaaatgcg	180
tattgggaaa	tgttccctga	ttcctcatgg	gaccttcttt	gaagcaatga	agtagggata	240
ttacattcta	gtctggggca	ggctgagtgg	taccacatg	gccaggagga	cttttccttc	300
acatctccag	gaagggcctc	tctattctcc	ttttttctcc	atttgctttg	ggcttctgag	360
aaacagcaca	caggattctg	ggacctgttc	tctaactaaa	aagaagatcc	agctaagtat	420
cacccaaagt	ggcagaatcc	aatcttcacc	cttgggctta	gaaaaagaat	tctggtgtcc	480
cagagacagg	tctttcctcc	tccagggaga	ggcttgctta	gatgcaggaa	aggttccacc	540
agaaaagcca	agggaggaac	aggaagaacc	cccaccgtca	cactgtccta	ggggaagcca	600
ggcatttttg	ctgcagaatc	tgggtcagga	tgttttattg	tcaccataac	catcaaagtc	660
ataggcaggg	caaatgcatt	cgccctgtgt	acattgtgag	acatagttaa	gctgggacgt	720
ccctgaatct	gtctcctagg	accagaactg	cctcattaaa	gggataaaa	atgatatctg	780
ctgagctggt	ggaaagtgg	ggctgcattt	ttattaaagt	atctgctgca	gcaagtccag	840
tccccaaagg	ttcatattcc	aagattctcc	acctctctgc	ctggagcatg	caagtgattc	900
tctgtaactc	attaaggtaa	aacaaaaagc	tctcctattg	tgcttttcac	acagaagtga	960
tgttgttgca	taaaagctac	atgtttcctt	tccttggaac	cagtctgcaa	aaataaaact	1020

US33026.ST25.txt

gctgtcataa	tttacaatag	ggaccctagg	agcactacac	caggtttggc	acgagtgctg	1080
ggtcttgagg	agactcataa	caggccgtgg	gctgacactg	gtaattccac	agcctcacat	1140
ttgagggtgca	tctctgataa	gggctagcct	ggtggtcctg	aggacgatcc	tgcctcatca	1200
tgtaccttct	ggcctgtgac	agccatccaa	ggggctcagg	ctagcccccc	agtgtttcaa	1260
acccatgcac	tcatgtttct	atcacggtgc	ccaagcagga	gagaatctag	cctgtcgtgg	1320
cttcaaagaa	ccatggagtc	ccacacgtgg	acttcaaggt	tcacgcataa	gatcctggac	1380
cagcatagcc	ggagcacagg	acaaacctgt	ccaggggcac	ggcagtcggc	acggcagcac	1440
gcaagcgggc	gccctcggg	cctgcacaag	gccactcgc	gttccgggtcc	cccatggagc	1500
cttctgcccc	ctcttccttc	ctctccccag	cgaccacagc	ccaggggctc	ggcccccgcg	1560
gaaggacagc	tccctacctg	aggggtggcg	tctccccctg	ccggaccgtc	acgttgtcca	1620
tagctttggg	gaagggtggca	tctccgctgc	gcacgggcac	tcctgtgggt	acaaggaaca	1680
gcagcctgag	agacacgacc	acgaggcact	tccagggcag	gaacaggtac	ccacagaccc	1740
ccattctcga	cagccacaac	ttcccaggac	tccggcagcc	gcacagtcct	ggtcccccg	1800
cccgcgcacc	agcgggctcg	ggaagcggtg	cggggaggag	ggaaggggca	gagttcgcca	1860
ggagcagggg	gaaggagaag	agaggagtcc	gggctctccg	gagtctgaga	attcttcctc	1920
agatcctgcc	tcagctttcc	agcctagcag	aaccagatgc	cccctcctgc	atccaaaaag	1980
agcttttctg	acgctcccct	ggggaggagg	gaggcggcca	ggaggg		2026

<210> 7
 <211> 2462
 <212> DNA
 <213> Homo sapiens

<400> 7						
acccgagaga	tgagccctgc	gtccactgca	ccagcatcca	gccatggact	gccaaggaaa	60
tctacaccct	ggcccccttc	ccttggtggg	cagcctgctg	ctggtgggca	cccctcaggg	120
gctcagcccc	tatccttccc	cagggaaagc	cggtatctac	cgtcctccta	gaaaggcagc	180
tgacatgggt	gcagggttctg	cgcactgcat	gctctgttca	ttttctcacc	tcttctaccc	240
attattccat	ctccccacac	tcttcccact	gcttcttatt	tttttgga	acggtgagat	300
cacacagggt	tatagccctg	ggggaaggta	ttccacagct	gcttttgagc	cccagccctt	360
ccagcagcct	gggcatctga	gcacaaattg	aacaacatta	atgagacacc	caatctcagc	420
atcttactct	ccactgctat	tctaaaatct	tcacaaaaaa	gttcagggtg	ttcttttcaa	480
gctgcccaca	cacatgcaca	cacaccaagc	ctcccccccc	agggcctgtg	gccggcttgt	540
gtgtgagaag	ccagctcgct	ctggatgtgc	gattctgcag	tctgtgaagg	cacagtggta	600
gattacacaa	gagaatggcc	ttacagtttt	ataaactatt	tattaggccc	gtcctggaga	660

US33026.ST25.txt

gctacatcaa	tatggccgctc	ggtgaagcaa	agcagaagct	ataaaaaatat	catctatccc	720
aaacaagctt	cataatcaaa	caaagccccg	tgctggctgg	gacaggcttg	tgttctgaca	780
cataagggcc	ctttccatct	ttaaaacaga	ccattaaaac	accagaacac	tttggctcac	840
agaagtctaa	atcaaaaggg	aggggaaaaa	agagagatct	cttttctcca	agagtaataa	900
tgcccttttc	agctcctgga	aaagctcatt	gcgatagaga	tgcaatattg	cttttttcat	960
agtggctttt	ccgtttcttt	ccaataccca	gaaaatcttc	taggggttca	acatttccac	1020
ttgtttccct	ctaggaatcc	ctttcttttt	actccacgtg	tacacagtag	ctatgcggcg	1080
atcccttcaa	tattattttg	ttgtttttcc	aataaataaa	gatatacagt	ttgatacata	1140
ttccagaagg	gaaatcatca	tcataataat	aacctgaagt	agaatgttac	cagcccagta	1200
ctgtgctcca	attccccaag	gcaaacgaac	acgggaggca	ggtccgtacg	ctggggttta	1260
ctgtgattaa	catttccagc	cagtgtctct	ccaattggct	ccaaaacatg	tcttaataaa	1320
ctgcattcca	aaagccctta	tatttccacc	ttattgcatt	ctgctagaat	gagatataat	1380
atgtggacgc	aaggaaaagt	gacattcagt	gaatgagctg	cagagagtta	tataaggaag	1440
ctaaatctca	ctccctacca	cctggcatac	tgcttgtggc	tcctcatcat	gattctagaa	1500
atcagtctgc	aactaaaatt	catgcatggg	gatgctctgc	tttggaccgt	gggctgggga	1560
agagaggtgt	gatatgcttt	tgagagggca	gaaggcaaaa	gagaggaaga	agggctgcag	1620
aggtaggttg	tccactcaga	gttgcactcc	catggcaagg	tgctccataa	agaagtctga	1680
gaatggagat	atgcagaact	gagtcactca	gagctaggca	gataatccag	cacctcagtc	1740
tgggagaagt	tttctatgac	attttgattg	tttttagatc	tgggtagaat	ttttggacaa	1800
gaagaagaga	cacgggatgg	actgcagagc	ctgagcagac	acatgcaaag	gacagtcacg	1860
gcacccccacg	ctctttccct	atccccatt	ttcaaccttt	attttctttc	catcatcctg	1920
gagatgcaca	ccctctgtga	cctaggaggt	tgcatagaga	ggaaaaaata	gtatctgtga	1980
tcacattttc	ttgtatttac	aaaacacaag	aaagtacatt	gacggcgaag	tccatgagcc	2040
ctgaggaaat	gtgaatagct	ttcagactga	agagtattca	ccctgagtat	atgcctgata	2100
ggtaattctt	agaggtgtgg	gggccattca	agtaattggc	agtaaatgct	ggctactaag	2160
taataaataa	ctaaatgtgt	agcatctctc	cttcccatct	gagccctgca	cgtgccacgg	2220
agaatcaaac	acatgacaga	gagtaaacgg	atctgagttc	tggactcagc	ccacacatgg	2280
tcaccttcag	catctcagtc	aagtcagtga	cactgtctgg	ttccaattta	ccccaaagaa	2340
gaaaggatca	aggctgagat	acatcacaca	acagtgatct	taaggctctga	tctggaagag	2400
aaaccacac	agtaaatacca	ctagcacaca	ggtgcccatt	agggttgaa	gacgcaggtg	2460
ac						2462

<210> 8
 <211> 2884
 <212> DNA
 <213> Homo sapiens

<400> 8
 tcctccccac acctgaccct gccctcactt ctggctcccc tcagccccct gtgccccagc 60
 cccagccaca ccaggtgcat ttggaccctc caggctgccc agttcatccc cgcctcggcg 120
 tctctgcacc tgctgttccc tggtttacag ctcaaccgtc atcctccac cccaccaga 180
 ggaccatcct cttttgttcc ttggaagctg gtgctgctgc tgcaaagtcc atgctactgg 240
 aagcctcgaa gtagggggga ttctgttcta gtctttgtca aatcccactg cccatggcag 300
 caccaggacc cagttggggc tccttggaac tggcaggaag gaatcgggtg gggagacagg 360
 cagagaaggg ggtctgtgca aagaccagga gaaaccagag acaggctcgtg gcgggggctg 420
 agaccttcac acagggcagg ggccgccccg ggggggttctc cttgtcttgc agcccctgtg 480
 cagggcatcc tcagagcagg ggcagcccag ggcaccggga cgcccagggtg gaagggtgacc 540
 tgccatcctg cagcttact tcctgcggg tgattcggtta cccctgggtg tgctgtcgc 600
 tcagtgggcc agggcttaag ggctgtgaag actcaacatg cccccacctg ctacttctga 660
 acaccaggca ctggctctga gacccccggg cttgtctgga catctcccca ggtgtactgg 720
 gccaggggac aggggcctgg ccatcccaac acccaggagc aagcagcccg tcacctgccc 780
 aggtccccga ggcctggaac accttcctgc tgggcccacc cagccctgga cctgtcccgc 840
 ttggtcacac gatgggacct tcggcccatc agcagggtgag ccccaggag cgtgcgtctg 900
 gcctggtaag gcctccacc caggagttgg ggggcccccg tgccaggag caggaggctg 960
 ccgaggtgga gggctccaca cagctaccac tccctatccc cagcacagcc tggggcctgg 1020
 ctctgagtac acatcctggg gcctggctct gagcagacca agagcccatc cctgctttgt 1080
 gaccccctgg gctgtgcctg acaccacagg tgtccagcgt ggagctgggg cccagctcag 1140
 tgccctgggag ctgatggacc ctggggcccc gctcagtgcc tgggtggctga tggacactgg 1200
 ggcctggctc aaacctgcac cgctgtggtc gggggagggg agggctgagc cacgtgggga 1260
 cccagcccc agtgacgact ctttgcggtg gccaagccct ccagggtgtcc cccagggctg 1320
 aggggctggg cttggggcag ctggtgacag cagatggtgg ccctgatcac tgggtgcctgg 1380
 acggcctctg aagggctctgt ggggtcctgg acgggtcccc attcatggca ggattaacct 1440
 ccctcgggtt ctgtgtggtc taggccgcc ctttgtctcc actgccccct ggccagaatg 1500
 agggacagtg acccaccag ggctgggcct ggctcagact ccgtcagagc cgcagggcaa 1560
 gttcctggca cgtccgaggt gggaggctcc tctgcgctcc aggaggctgt gcctggcccc 1620
 ccttcccggc aggaaccggc tgtgtccctt tccttccttt atcttctgtt ttcagcgctt 1680
 tcaactgtga agaggtgaac tcttcaaaca cgctgagcaa acaggcccga ctcccagggc 1740

US33026.ST25.txt

cgcatccggg	atgtctcaat	agctgtggcc	ttgacgtcca	cctcggaccc	ctgccccgga	1800
cccagcccag	ttcccaatgg	gccctctgcc	cggggaggtg	cctagtggga	gggacgaggg	1860
caaagtcggg	gccccactt	gtttggtgtc	actgtgtgcc	agcggccact	ggcgggagag	1920
gctgttccag	ggtggaggcg	gggaggggtt	gaccacaggc	actgagcggg	gacagaggag	1980
ctgcctgagg	gtcccagctc	tgccatggag	aaaacgctat	ctcgctgatg	cagaggtgcc	2040
cggccccactc	gagctggggg	tgagggggct	gctccccagt	gggccgccag	cccccatgaa	2100
ggccgcgggc	accggccgtg	gtcagggagg	gcaggggaca	ggcagtgggg	gccagcaggg	2160
gagacactag	gcttggtccc	agcaccagag	tgggcatcgg	cttgtgagct	ggagccgcgg	2220
gcagggaggg	gggatgtcac	gagggcttgg	ctaagggtgg	agacctgggc	gggtgcgtcg	2280
gggggacgtc	tgacgagag	gcccgggcag	caggcacacc	cctcctgcca	gtgcgaggaa	2340
cgaggcgcca	cagcggccgg	tagcccccca	tttgcccagc	ctggcctgga	gcaggcagga	2400
aggccggggg	gaggggtctg	gctggggcct	gggtgcagtc	acagccacga	gcccaggggt	2460
ggggactctg	gcccaccctc	cagaccatcc	tcaaggccca	ctggcccagg	catccccgcc	2520
caccctctcc	accgtgccgt	gctgcagcgg	gtctaccggc	ctggatgtga	aagagagctt	2580
ggagacccca	gagacctcgg	aaccttcagc	tttggaagtg	acgtcgggtg	ggtgggtggg	2640
gggagcacag	gctctggagt	cccgggaagt	agcggggagc	tacgctgaga	tctgggagac	2700
cccctgcccc	caccaggtta	cagggccagg	cagaagcccc	aggtgtgccc	tgagttaaag	2760
aaaccgtcac	aaagaacaaa	gggagaaggc	gggttccagc	ctccaccaca	gccctcgcgc	2820
tctgaggagc	cacctggggg	cctcagccat	gaggggtgac	aggtggcaaa	acgggccagc	2880
tccg						2884

<210> 9
 <211> 2490
 <212> DNA
 <213> Homo sapiens

<400> 9	
cttccccctcc	tgataatgca ggcagcatca gaagcattcc caggtggaca gaggggatga 60
aagggaaacac	tattctgaag tcagtcaagg ggattgttaa agatggtaac tttttcacat 120
ctttattccc	caaacagctg aattaatcct gaataaatgg agagctgagt gtatgggttg 180
gaagggtgagg	acaccagggg ggctctggcc ctcacagggt ttgcatctga aggggcaggg 240
gctggggctg	ggctgggaac tgatggagta agatgtgaat aacagtgccg ggggccaac 300
gttcagagct	ggcaggagag cggaagggtg ggtctggcct gggctgctga gaatttccat 360
caggtctggg	cacagctggg gaacacaggg tgggtcccgt gcagggcagg cgtcagttag 420
gacatgaagg	ctggtgagca gccgccaggg ggctggggcg cagtgagaag caagaggaaa 480

US33026.ST25.txt

gggcaggtgc	ggctgtggat	ccctggggac	tgcagcaggg	gtctgagctg	tgcattggtga	540
caccagacac	cacgaaggga	ccaggaggcc	cacacacctg	gagagagccg	ccacgcagct	600
ggggaccata	gcgtcacctg	cacctcctgg	ctctgcctct	tgtcttgggc	atggctcact	660
caagccccac	aggtgagtcc	ccaccgctgc	ccccttactg	ggggatccct	gaggccagtg	720
agggtcacga	ggacaggctg	gtgcatggct	ggacctggga	ggtgggttcc	tagagccctc	780
aggaggcagg	gtcagggtcca	gctggcttcc	tggagggtgg	ggccagcaga	aaggaaggag	840
agagaccagg	gagaaacccc	ggctggggcc	cagggtccct	aaggacagca	tcccgcgccc	900
cctcccactc	ccgcgggcct	cgctgcctgc	ccaccctggc	ctggccccgc	agtctcagga	960
cgcctggtac	ctgcttggtt	gtcagggcg	ccccctcccc	tgctgcctc	gtggggcagg	1020
gctgtctaga	cagcgggggc	tccttgcccc	accggctttg	tccccagagt	tccccgagca	1080
gaagaggcgg	ccacagacaa	aagggtgttt	gcctttcccc	cacagccagg	cagctcccct	1140
gtctccatgg	ctccaggcca	gcctgtgacc	ccaggccccc	acccagaggg	acacaccag	1200
gagctgggcc	tgtggctccc	tgaggggtgg	ggtgaggacc	gacaccagga	cttgcttccc	1260
acaggggctt	cctgggggtg	cctccagccg	agtctggggc	acagggcagg	gctctgatga	1320
gtggagggtta	ggagggcgcc	gtgagggctg	gcaggagctc	aggcaggggg	agtgaggagg	1380
tgggaggtgg	gcagagtggg	gtgtggcttc	cagcaggggc	cccctgacct	ggcaggtgtc	1440
gggcagaaag	ccaggccagc	tgtggcggat	gcagggtggg	tctgggggtg	ggcagatgag	1500
gagggcccgg	gtagctgtgg	gtctgtgccc	acctggcctg	gccccaggc	acctcctctg	1560
cttgggcccc	aggttctccc	agcaccctgg	gcttcttcaa	gtccccctgg	cctctctccc	1620
tctcatctca	ggtggcttcc	caggcagccc	tgcccctaaa	accagcacct	agagcgtccc	1680
tgctgtgcc	agcaccctct	ccccaccgg	ctctgccagc	ctgattccct	cacgtctgag	1740
tttccctcac	ccgatttctt	ggcatatttt	atgtcacggg	cctgcacggg	tgtcaggtgc	1800
ccaggcctgt	cttgggatgg	agggggctct	gacagtgagc	gagacagcaa	atgtcccaag	1860
actcagtttc	tccgtttctg	agcagggtct	ccccctgcca	aggactcggc	cgaatggcac	1920
gtggggacac	tcccgggtgc	ctggcccagt	ggcaaccctc	ccccggcccc	ttcatctgtg	1980
tcccacatgc	tggggcgctc	acggattttg	tgaatgaaca	aggaacaagg	gaggcagcgc	2040
ctttgaaacc	cagggtagga	gcacaaagcc	accaagacct	ggctctcctg	cacacccttg	2100
ccccgagccc	gccacgggca	gccagatagc	aggcagctgg	agcgaacccc	tgatccaggc	2160
ccctggccct	gcgccggctg	aggggtgaga	gctgggcaga	gcgtatctga	cctgggaaca	2220
cccacctcac	ctaagcctgc	ccagctccac	ctgagacaac	atccggggcc	tgataaagcc	2280
agttgtgcac	cctgggggca	tgcaccatgc	taatccgctt	atctgctggg	ttggtctcag	2340

US33026.ST25.txt

ctgtgccc	aaaggagtcca	caactggg	cgagatcagggg	acaggccc	aggtgggaggc	2400
tggctctg	cgccccag	ctgtgcagct	gggccccgca	gccttcccc	ccttcccctg	2460
tgttgggt	ctcaggtttcga	tggcctttcc				2490

<210> 10
 <211> 3456
 <212> DNA
 <213> Homo sapiens

<400> 10						
cagaaggtag	agttggagga	tcataggcaa	gttttcagag	aaaccgcttt	ttttttcatt	60
tagattatta	taagatgttc	cagaggcact	aagtgaacag	aatctaattgt	ctttgtgcaa	120
tctgacgaac	acttagtggt	tagtagcagc	attatgaaat	tgccattttt	agataattct	180
ggcagtaaat	accgttttaa	tgggtggtgaa	gaagactagc	aacctatcct	tcacaaatat	240
ttcctgatag	ctctattttc	cctgctcttt	caattactta	cgtttacact	ttctctttat	300
ttacctatat	gtctatctct	gtttgatctt	ttctgaagtt	ctgggcatac	tactcagatt	360
tcagtcacag	ctgtgaaagc	tgctattgat	aagatttttt	gaaacttcat	tctgttgcta	420
aagaagggag	aaatggcctt	attttattca	atacaggaaa	aagaaacatt	cacttttttt	480
ttggtatctt	tcagtttcag	agtcaagtgg	tgagatcaaa	gacttttcac	caaaaaatgt	540
catttatgat	gactcatccc	agtatttgat	catggaaaga	attctaagtc	aaggccctgt	600
gtattccagt	tttaaaggag	gctggaaatg	caaggatcat	actgagatgc	tgcaagaaaa	660
tcagggatgt	attaggaaag	taacagtctc	tcatcaagaa	gccctggctc	aacatatgaa	720
tatcagtact	gtggagaggc	cctatggatg	ccatgaatgt	ggaaaaactt	ttggctgcagc	780
cttttccctg	gtgttacacc	agaggactca	tactggagag	aaaccatatg	catgtaagga	840
atgtggcaaa	accttttagc	agattttcaa	ccttgtgaaa	caccaaata	tacatactgg	900
aaagaaacc	catgagtgt	aggactgt	taaaacattc	agttaccttt	catttcttat	960
tgaacaccag	agaacgcaca	ctggggagaa	accttatgaa	tgtactgagt	gtggaaaggc	1020
ctttagccgt	gcctccaacc	tcactcgaca	tcaaagaatt	cacataggaa	agaaacaata	1080
tatatgtagg	aaatgtggta	aagcatttag	cagtggctca	gaactcattc	gccaccagat	1140
tacacatact	ggagagaaac	cttatgaatg	cattgaatgt	gggaaggcat	ttcgccgttt	1200
ctcacacctt	actcgacatc	agagcatcca	tacaaccaa	accccgatg	aatgtaatga	1260
atgtaggaaa	gctttccgtt	gtcactcatt	ccttattaaa	catcagagaa	ttcatgctgg	1320
agaaaagctc	tatgaatgtg	atgaatgtgg	taaagttttc	acttggcatg	catcccttat	1380
tcaacatacg	aagagtcaca	ctggagagaa	accctatg	cggtgtgctga	atgtgataaagc	1440
cttcagccgg	agcttttccc	tcattctaca	tcagagaact	catactggag	agaaacccta	1500

US33026.ST25.txt

tgtatgtaag	gtagcaaca	aatccttcag	ctggagctca	aaccttgcta	aacatcagag	1560
gacacacact	cttgacaacc	cctatgaata	tgaaaattca	tttaattacc	actcattcct	1620
tactgaacac	cagtgaattt	acactgcaaa	gaaaaactat	gaatgtatgg	aatTTTTtaa	1680
aaagaagtat	aatgccttac	ttcagagaac	tcttgaaaag	aagccttatg	tgaaagtgat	1740
gactgtgaag	taatatggcc	cacactttat	tcaccaccct	ggagaaaaaa	aaaccagga	1800
atatgtggaa	aagccattaa	taaccactct	tttatttttt	tgcaataaca	aggtgaaatc	1860
aatattgttg	agaagattct	tccatctggt	aatgttgaga	agacttcatt	tggtaggagt	1920
cccttacttt	acgtgtgtaa	attcctacca	ggaaagaata	catatccaat	agattggaga	1980
aagccagaga	ttagccctca	ttccgcatct	gtcaaccagg	acagaaagca	tggacaaggg	2040
atgagcttta	caaagatgat	gcactttgga	gatcagaaaa	ttcatattta	agcaaagtga	2100
tacaaacaca	gtgatttggg	aatgccttca	tttacaatgc	aatacttaca	ttttaatact	2160
cttgtaggag	aaaaagcaac	tgtataaatg	aatgtagagt	gactttctgc	aatatttcaa	2220
acctatatca	gagaattaca	ctgtgggaaa	actaccattg	taataagtgt	agcaaatct	2280
ccttagatat	ctgaaaagtc	atactggatg	gaatctgtag	gaaacggttc	tattttgagg	2340
gaagggggat	tcctttttgt	tttttaagtg	aattcagaaa	atgttataaa	taaatctttt	2400
ggtttattat	aaaccttctg	cttgctgatt	ttttcccaca	gcatgtgatt	ctgaaaatgt	2460
aactacaata	ttgacataaa	aaataaacag	tagtttttct	tgttgaaaca	tacaaacata	2520
acaaagtgtt	tttaggtgtt	ttatgatttt	aactttcaga	cagagtttgg	atttaaggta	2580
atgctgacag	ttatccttga	atctgactat	agacatttgt	tattcagtgt	gaaacaaata	2640
taagatacat	cacagaaaat	taccaaggta	ttcttcctgt	tttgttccat	gtacggtgaa	2700
aaccgttctt	ttgtaagcag	gtatttataa	ctgttctggc	attaccacct	gccagctga	2760
caaaggtcac	accatcaggg	ttagtttgcc	ttaatcagga	aggtaagcaa	ttttattttg	2820
tagaaagaga	ggtagagaat	atgaatagga	atgaatttag	tgagcattaa	tgtaatggct	2880
gcattgaggg	cacatttgta	ggaggtgtta	ttagataaat	ataagtaatt	ttgtaagagg	2940
tgaaatttat	aaaagtttta	gccccaaaa	acctatttta	catgtactag	agttctaaat	3000
acattatcag	aagtgtattt	cctcaaacct	gccattggca	tgccatattg	gtacatacat	3060
ttagaagctt	ctcaagtttc	cataagagtt	gtttcagaga	ggctgattta	tcttacaata	3120
gtgtacagtc	tgactcgaat	acaagcagca	tgcccttacta	cgtatgggta	tctaatactt	3180
gatttgattt	tctcaagcag	catgccttat	tacatatggg	tatttaatat	ctgatttggt	3240
gtcctcaagc	agcatgcctt	attacatatg	ggatatctagt	atctgatttg	gttttctcag	3300
gcaggaatgg	tttgatatcag	ggtaaaaatc	aagttaccct	gtcagcaaaa	ttaggatatg	3360
aaaaattcat	tatttattta	tttaagagta	tactcaattt	ctcccattat	ctgctccaca	3420

tccactttcc ttcctactgt ttactctgtg gggatg 3456

<210> 11
 <211> 1914
 <212> DNA
 <213> Homo sapiens

<400> 11
 gtgtccccag gcagagttaa gaaaagaagc caggagcctg tgtgtggagt gaactgtgct 60
 tgctgggttat cagttttccg agggcaagga atctatagtc ttgtaaacct tctgtgtctg 120
 ggcaccttcc tgttcattgt tgtgacttag ttttctcctg aacctttcag cagtttgccc 180
 tccgtagacc tgcccagatc atccatggga ggtcagagtc tgtaggtcta ggactctagg 240
 acttttcaga gcatttctga aaagccactg gactgggtctt caaagtctgt ctcgttaaga 300
 ttctgtgaga ctgaagggtc gcccacact cagagtttgt gtctgctccc tggccccagt 360
 tgtgtgtcct gcccgaagtc cagcctctct cagtgccctc ctttaagagg tctctctccc 420
 ctacaccacc taccttccctg aaaggacccc gagtcttcag gaggggtgat acgacgaaga 480
 gtgggacaca gaccatggag gacagagcca ggaaccagcc aatggagtat ccccagggcg 540
 ggtacacata gacgttggtg tacttgaggg ggggtgtactt gctcaaggag aagaggaaag 600
 tggcctggga gaaggaagg gacagccatgg gtaagatagg gggcgactga aacctctctc 660
 gcagctacgt acagccaagg acagaggaca agtcagggtgc actgcagcac gtctgtaagg 720
 tggaagagta aaagcccctg caaatcccag gccaaaggcat cattcacatc acagacggag 780
 acaggaggcg atacaaagga agggaggggc tcggaagagc atcattcaca tcacagacgg 840
 agacaggagg cgatacaaag gaaggagggg gctcgggaaga gcatcattca catcacagac 900
 ggagacaggg ggtgatacaa aggaaggga gggctcagaa gagaagctca gacagacagg 960
 agaccaacca tcgagaaatc aggcagaagc aggaggcact gtgaggaagg gatggagccg 1020
 gaagtaggaa gtagaacaag atttctactta tgggtggatg agatggcccc agaaagaaga 1080
 gcagggaagg caacatagaa caggaaatgg accaggcccc acgggagact ggacaggtgg 1140
 ggaaagagcc ctgcatgtca gccgtccttt ccctcatctc tggagtcttc tgggggcagg 1200
 aaggaataga ggggcagctg gtgggcacat accaggcaaa gtccaggggt caggaagagc 1260
 caggagatct tcaccagggg ccatggcccg tagccaatca tgtcctcaat gttgtcatag 1320
 aaacgggtccg cccctgagca ggcattggcgt gggagagtgt gagagccaga gggtgagaac 1380
 agcttccccg tgtttgaggaa agaccactt ggctctgtgc cttccctca ccccgccct 1440
 gtgcagggaa actggaacag ggcacgtgag tgagacgcct ccctgacacc ctgtatccct 1500
 gcatgagatg cattcgagtc acgaggcagg ggctgcccc acacactgct gctgccatct 1560
 cttgtcagtg ctgtctcttg cctccctgtc ttgtgatgga gacccactg gtctaaccac 1620

US33026.ST25.txt

aaaggagtg	gtgtgagccca	aaatggggct	caatgggttag	acaaacgcct	gtttacccgg	1680
gtagcagaga	tgaatttgg	tcaagccaaa	acagcaaaac	aacaaggctc	ccgctgttca	1740
gacacatcat	agaaaactca	tagagggcta	gagggctact	gggaacagaa	cggtggtcta	1800
gattgcagac	tccagaggaa	ccacctctga	gttcccaaaa	aagcatggta	agaaggttaa	1860
tttgtgttta	gtgaaaacat	tgactggctg	tattttttgt	tgtttctact	ctgc	1914

<210> 12
 <211> 3209
 <212> DNA
 <213> Homo sapiens

cctgctgact	gagggggatg	gccggaacct	ggccctgaga	ccgtccctcg	aaggaagcag	60
tgtggacatg	tcctggaagc	acctccagcc	cttcacatag	attcccaata	attccctagt	120
ttcagccgcc	tgttcccagc	tgttcattcc	cactgacttc	ctcagagccc	gattcccctg	180
aggccactgc	caggccaggc	tctcaccagc	tggggagacc	tttctgaagg	ctgctcctgg	240
tggcagggcc	gagcctggga	tgatggccag	gacgccctcc	atgggggatc	acagccatgc	300
acggggggcgt	ccagtccgag	acctatacac	atgtgccggg	tgcaaggcgg	gaggctcctg	360
gcctctgtaa	ataagacctc	agctgttcac	cagaaacctg	gagcccaaata	cctccccaga	420
tgagtgcaga	aggcccgctc	cctagagaag	gccactgtcc	ccctgactcc	tgacttaagg	480
gcaagtccca	catgagagcc	ctcccaacct	ccagtcatgc	tcctactcag	aaaacctgtc	540
ttctgtgtgc	aacagagccg	gctccttctg	ggagcttctg	acctccaatc	ctaggatata	600
tgtccccct	gccccagcac	ccccgtccct	ctaatacctaa	ggcttctgtc	actcctgccc	660
cgggagacct	gtccctccaa	tcacaggacc	cctgtcccac	ctgccccagg	acctttgtgc	720
ctcccatttc	ttctgccttt	gacacccttt	gccccacccc	cctgcttaac	taactttgag	780
tcaacgccga	ctacagcacc	aggactgctc	acttccagct	tctgctgaca	cctgccctcg	840
tttagtcttt	cttggtggct	gcaggttcag	tagaaactct	atgccaggct	ttgtctccgg	900
gacataggag	agtgtgtgtg	ctcagtcatg	tttgttgaat	gagtaataaa	tggtaaaggt	960
tgttgctgcc	ccgagacgct	tcaagaggaa	gcagccccct	aaccccagct	gggaggagga	1020
ggaagaatcc	tgggctggct	agttggggaa	ggagctgagc	aggccggggc	acctgggctg	1080
acacagcacg	agcaccacgt	ggatgggatg	cctgcagtca	gctgcaggag	ggccttgtgg	1140
ggaggccaca	gggcccctct	tttgtcttga	atggagacct	ccaaggctcc	aggacataaa	1200
gggccttggc	caagctgttc	ctggccacct	ggccacatct	ccagctgcac	cagttctcac	1260
ctccattccc	cacggcccca	gctgtcaggt	tttaggggtg	cagagagctc	catgcacccc	1320
ctggccttgg	cctcttctgg	ggcttagagc	tccaggactt	ttgggcctgt	gcaccctcag	1380

US33026.ST25.txt

cgtccccctct	tacgactccg	gcgaggacgg	ccagggtgcct	ggtggactct	tgcacgtgct	1440
cagccacgag	acctcatgtg	cgctgtcctg	agcccacctg	tgtcctcaga	tgttccaggt	1500
catccagcca	gagcgtgcgc	tgtacatcca	ggccaacaac	tgcgtggagg	ccaaggactg	1560
gatcgacatt	ctcaccaaag	tgagccagtg	caaccagaag	cgcttcaccg	tctaccaccc	1620
gtccgcctac	ctgagcggcc	actggctgtg	ctgtagggcg	ccatccgact	cggctccggg	1680
ctgctcgccc	tgcactgggt	aggtctgtgc	ctcggtgccc	agctcgtgca	ctgtgcagga	1740
aatgtggcca	aggggctgag	tagggaggga	ccagcagaca	gtgcatgcct	gcctgtaagc	1800
tgcacataaa	cagggctgcc	ctcgcctcct	cccaggagcc	tcccacccga	ggggtcctcc	1860
ctcgagggag	catctggggc	ccagcctctg	gaaggctctg	cgcagactcc	agggtgccac	1920
aggccttcga	gggtcttcct	gaggccctgc	cccgggggag	cgggaggtca	gggtgaaggg	1980
ggactcccca	ggccgtggcc	atcctgcttc	tctaggagga	ggctgggagc	aagccccctc	2040
ctgaaagctt	cgtctggccc	aggacacca	ccttgattcc	acatgacgca	gcagcccgtt	2100
gtcttcccgg	ccccccatca	gccgggtccc	catcagccgg	gccccccatc	agccgggccc	2160
cccatcagcc	gggccccccc	atcagccggg	ccccccatc	agccgggtcc	cccatcagcc	2220
gggcctcccc	atcagccggg	cctccccatc	agccgggtcc	cccatcagcc	gggcccccca	2280
ttagccgggc	ccccccatta	gccgggcccc	ccatcagccg	ggtcccccat	cagccggggc	2340
tccccatcag	ccgggcctcc	ccatcagccg	ggccccccgt	cagccggggc	ccccgtcagc	2400
cgggcccccc	gtcagccgga	cccccatcag	ccggaccccc	cgtcagccgg	gccccccgtc	2460
agccgggccc	ccgtcagccg	ggcccccgtc	agccgggccc	cccatcagct	gggtcctccg	2520
tcagccagcc	ccccatcagc	cgggccccca	tcagctgggt	cctccgtcag	ctgggcccc	2580
cgtcagctgg	gccccctgtc	aggcccccca	tcagcagggc	cccccatcag	ccgggcctct	2640
ggcagttgca	cagaggcttg	ggtcatatct	gccggtccta	aggaggaggc	ctgggtgcct	2700
ggcggtcccc	ctggttatgc	tccgtgagat	gcacctcgct	gttggtgtgg	ccacgtgatg	2760
ctttcgcata	agggccctgc	aggggatgag	ctgtgctcca	tgctgggcca	ccgtttaatc	2820
ctccccacagc	ctcagaggtg	ggaccttaga	tcctgcttcg	tggacacaga	ggctgaagct	2880
caggaagggg	gcctggctgc	tgctcaggca	tgcgtggcca	ccgccccaga	atcccccagg	2940
agaggccagc	gctctcccat	gtcctcgcct	cccaggacag	cgggaagcat	tgcagcctga	3000
cgaggagaga	aaacctggcc	tgtccccacc	cgcagccgac	cgtgcaggga	acacagtccc	3060
aggaggcttc	cttccaggcc	atttatctcc	atgagaacac	gtctgccgag	tttgctcact	3120
gccttggcag	atctgtgggt	cccaagaggc	tccagccgct	gaggccggac	agctcgggag	3180
cctcccctat	cccgacacc	cacagccag				3209

<210> 13
 <211> 1983
 <212> DNA
 <213> Homo sapiens

<400> 13
 cagcccagat ggtcattacc tgcttagttc aaaggagtct cacaaagact catcctgcca 60
 cccccaccat ggcatgtagc tggctacaag ccagacctgc tcaggctgta ctgcttagat 120
 gcagaagcag gaacctgcaa tcattaacta caggaaaaac agaaactcct aaaacgtaca 180
 gagcaagagg caaggatatag ttacatagc agaggggatg agattcgaca gggaagttca 240
 cttacactaa aggagagata ggaaaactta cctcttttca tccttatgct gagggagtgc 300
 tgggagagtc ttcagagccc attcctctga gctccgcccc ttagataaca tcattgaaac 360
 tttgcgtgtt actgcctttg acgtgagtca gcctaacaca ggcagcttgt ttctttctct 420
 tttttgattt atattttctt tctttaattt tttctttttt ctcgtgtcaa cattaggttg 480
 acaacttggtg ctctttccgg ctttttcacg taggcagtag tcactataaa ctttcctctt 540
 accactgctt ttgctgtatt ctttaagggtt caataacttg ttaccattta attaaggtaa 600
 tttttaaatt ttcattctat gccattgtta acccagatat tactcaggag cagatttctt 660
 aatttctatg tatttgttca gttgtaaggg tttctttgag agttcatttt tagttttatt 720
 ctctgttggt ctgagaagat acttgatatg atttcactgt tttaaaaatt cattgagact 780
 tgttttgtga cctattatat gttctatctt gtagaatgtt gcatgtactg attacaagaa 840
 tgtttattct gcagatcttg gacagaatgt tctgtacaca tctgctacat ccatttgttt 900
 cagtgagtta ttttaagtga ttttttctct gttgactttc agtctcgaag atctgtctag 960
 tgctgttatg attgtattaa agtctccac tctgattgtt tcgctctcat ttttttaa 1020
 ctctaatagt acttgtttta tgaatctagt tcctctggtg tttggtgcct ataaatttag 1080
 aattgtagta ttttcttatt gaattgatcc ttttgtaatt gtatagtgat catctatgtc 1140
 ttttttttac tgttgttgct ttgaagtcca ttttgtctga tatcaaaata gctactcctg 1200
 ctactcttg gtttccattt ttgtgaaata ctttcttcca accttttacc ttgagtttat 1260
 gtaaactctt gtgtgttagg gggatctttt agagacatca gatatttcca ttgtgatttt 1320
 ttaatctatt ctgccattgt gtatctttta tatggagcat ttaggccatt tacattcaat 1380
 gtgaatatat agatatgagt tactgttttc tttgccatgt taattcttac ctagtttttt 1440
 tttttcactg tgttattgtt ttataggcct gtgagtttca ggctcttaag aggttcctt 1500
 tatgtgctta ctgggctttt gtttcaagggt ttgcaactcc ttttagcatt tcttgtagctg 1560
 ctgggttggt agtgacgaat tccctgagca ctgggtgattc tgaaaatgac tttacttctt 1620
 tttcatttat caaacagttt ggcaggatac aaaattcttg attgaaagtt gttctattta 1680

US33026.ST25.txt

aggaatttga	agatagaagc	ttaatccatc	tggctggtga	agtttctgct	gagaagtctg	1740
ccattagtct	gatgggtttt	ttgttttggt	ttgtattgct	gctcttagaa	ttatttcctt	1800
catgttaact	ttcggtagcc	tgatgactat	aagcttggtg	aaggcagttt	tgcaatacat	1860
ttcccaggag	ttctttgaac	ttcttggatt	tggatatcta	ggctcttagg	caggccagga	1920
atgtatttct	caatTTTTct	ctcaaataag	ttttccaaac	atattatttt	ttttcttctt	1980
cag						1983

<210> 14
 <211> 2617
 <212> DNA
 <213> Homo sapiens

<400> 14						
catctcacc	cgttgacacg	gttagtttgc	atgcacacac	agagcggcca	gccgccccga	60
gcctgtgggc	aggccagcag	ggtcagtagc	aggtgccagc	tgtgtcggac	atgaccaggg	120
acacgttgta	caggggtgggt	ttaccgggtg	acttgtccac	ggtcctctcg	gtgaccctgt	180
tgggcagggc	ctcatgggcc	accacgcagg	tgtaggtctc	ccccgtgttc	cattcctctt	240
cggacacggg	caggatgctg	tgggcgaagt	accggcctgg	ggcctggggc	tcaggcattg	300
gggcgctggg	cacatacttc	tccggggaca	agggctgccc	cctctgcatc	actgcacga	360
agacgtccgc	gggagagaag	cccgtcacca	ggcacgtgat	ggtggccgac	tcccgcaggt	420
tcagctgctc	ccgggctggg	ggcagcaagt	agacatcggg	cctgtgcagg	gccacccttg	480
tgaacagaga	tgggtggtgag	ggcggggcag	tggggggacc	agcctgtggg	ctggggttga	540
gtccccTTTT	ccccagttgc	ccagacaacg	ggggagttag	gggtgctttc	caccatgccc	600
cagaggccaa	gggaggtccc	agggagtgca	ggaagagggg	caagagtggg	gcctaccctt	660
gggccggggg	atggtctgct	tcagtggcga	gggcaggtct	gtgtgggtca	cgggtgcacgt	720
gaacctctcc	ccggaattcc	agtcatectc	gcagatgctg	gcctcaccca	cggcgtgaa	780
agtggcattg	gggtggctct	cggagatggt	ggtgtgggtt	ttcacagctt	cgccattctg	840
gcgggtccag	gagatggtca	cgctgtcata	ggtggtcagg	tctgtgacca	ggcaggtcaa	900
cttgggtggac	ttggtgagga	agatgctggc	aaaggatggg	gggatggcga	agaccgggat	960
ggctgtgtct	tgatctggag	tcaagagaag	ggagtcagag	gtggggcagg	tgtggatgtg	1020
ggcggaggca	tggttccac	ccaaagagta	gcaactgcct	ctgccgagcc	caggggtcct	1080
gccgcccag	cccctgccct	tggccgctct	gggaagccaa	ggctcaggga	gtagatggct	1140
gcatccgggg	tggcgaatgc	cagacccgag	tggacccttg	tgtgtcggtg	ggtgctgccc	1200
ctggggacag	gtcactcacc	ggggccacac	atggaggacg	cattctgctg	gaaggtcagg	1260
cccctgtgat	ccacgcggca	ggtgaacatg	ctctggctga	gccagtcgct	ctctttgatg	1320

US33026.ST25.txt

gtcagtgtgc tggtcacctt gtaggtcgtg ggcccagact ctttggcctc agcctgcacc 1380
 tgggtccgtgg tgacgccaga cccacactgc ttcccctcgc gcagccagga cacctgaatc 1440
 tgccgggggac tgaaacccgt ggcctggcag atgagcttgg acttgcgggg gttgccgaag 1500
 aagccgtcgc ggggtgggac gaagacgctc actttgggag gcagctcggc aatcactgca 1560
 gtgagggaca cgtgtcagcc cgggtgccgc cactcccgcc cccttcggct ccctctctgt 1620
 cccggtggct gggcccgcc ctcacctgga agaggcacgt tcttttcttt gttgccgttg 1680
 gggtgctgga ctttgacac cacgtgttcg tctgtgccct gcatgacgtc cttggaaggc 1740
 agcagcacct gtgagggtggc tgcgtacttg cccctctca ggactgatgg gaagccccgg 1800
 gtgctgctga tgtcagagtt gttcttgtat ttccaggaga aagtgatgga gtcgggaagg 1860
 aagtcctgtg cgaggcagcc aacggccacg ctgctcgtat ccgacgggga attctcacag 1920
 gagacgaggg ggaaaaggg tggggcggtat gcactccctg aggacccgca ggacaaaaga 1980
 gaaagggagg gtgaggagct gcctcctcgt gccctgcctg tcggggctga gtggcgttct 2040
 gagtgccctc actacttgcg tcccgtgtg gctgccccac caaggccgag cccacctgca 2100
 ggcctccaaa gccagactg tcatggctat caggggtggc ggggccgtgg tgaggcctca 2160
 ggtctttgtc caaggctgct ggggctgcag gcctcggccc atcctgctgc agggcccagc 2220
 actgaacacc tggacagacc tggggtctcc tggagcaggc tgagccatcc ctgccaccat 2280
 tcagctggct gccctgctgc actctgaggc ctgactgccc ctggctccct gctcagaatg 2340
 gctgagggct caggtttggg tggaccaggc ctgctttccc ccgaggcatc agcacgtagg 2400
 tgctgcacac actcagctcc cagcacatgc agctggaggg cccaggttgc atacctgaat 2460
 gtgaagcctg gagccacaca cccgcaggc agccaataga gtccctccag cccagcttct 2520
 gctgccccca gctcagtcac actccagcta ccctgaagtc tccccaggca gacaaccag 2580
 gcctgggagt gagtataggg aggggtgggtg tgatggg 2617

<210> 15
 <211> 3839
 <212> DNA
 <213> Homo sapiens

<400> 15
 atacatctcc gacactagga aagacacgac aaagcgtaa aacgcagctt ggtcactcac 60
 cacgtcgctg gggcacgacc acgggctgct gagaaagctg ggccctgcca cctccccacg 120
 caccgaagca gcctgaggca ggcagggttg tgacgcagga cgggtggactg gccgcctgtg 180
 cccaggctcc agagccaatg cgggtgggtg caggctgctc ccaggcctgc gggagatgca 240
 cccagcgtaa ccatggggcc tgagggtggc ttgggggttg actgtctcgc agcagagcat 300
 gcatcctggc acttcaggtc cctccacact ggaccaaca gcagttcacc ttaacaacgc 360

US33026.ST25.txt

cttttttagcc	ctggtcctgt	tactggaacc	aaagagcaac	gccacgaagg	gactaggaaa	420
tccacagcaa	gagccaacct	aaacccctaa	accaggggaag	gctgtgctag	caccctcttc	480
acaaacgagg	cgagcatggg	gaggtgctga	ttctggggct	gcgcgccagc	cggcaaaagc	540
ccaggatatct	gagacataaa	gcttattatt	ctagttttact	tggagtcctg	gcgtgctgtc	600
cctgaccccc	gcctgtgagg	gaacccctgg	aagcagctga	agcacacgca	ggccggtgtg	660
tgccacgggg	gcgggcgcc	ggcctgggga	cgccctgaag	atgcttcctc	agctggagga	720
cccaggcaca	gagaagctgt	aagactcaca	agccagggct	cacaaggctg	gactttgttg	780
gccaaagagt	ttctatgcac	acagaatgta	caaaggtaga	cagaaacagg	aaggtgactg	840
ggctcagggc	ccaccaggaa	ttctgacagc	acaagacctg	ggaactgggc	aggtggccat	900
ggggctcact	ttccccaagg	ggtcacagca	ggcctgaagc	cccatggcaa	ggtggtactg	960
tcccggcacc	tcagatgctt	ggtcggccta	agggtaaagg	tgaattgaa	atcagttaga	1020
aataaaacag	atttaagatg	ctccctgcat	ttccactgct	tcacttgact	agacaaaaaa	1080
acttgtcacc	gaagcacagg	gtgcatttac	caagcaccca	gagacacaca	tgtggtggtc	1140
tatgctgaag	ccccccactg	acgctgggct	ctcagcccct	gccaggaggc	cctcactgag	1200
gaggccacaa	gccaaggtc	acacccact	gtgggcagcc	atggccaccc	ggccaactcc	1260
ttagaaaaac	cagccggggc	tccaagctcc	cgagggctgc	agagacctca	ggactggcca	1320
cagccagctt	ctcagcagcc	ccaaatggag	cgtaggcctg	tgaggtgcct	gctccgacca	1380
ccacagagcc	tgcttctgag	gggctggtg	cccagctgtg	cctgccgcct	ccacttagaa	1440
cagcaagccg	gatgcgttga	ccacttgag	ggggttccta	gctcgaacct	cctcatgacc	1500
aagggacgaa	gtcaccgtga	acacgctcac	cctcagcacc	aaaggcacgg	aactcccaa	1560
cctcagctgg	gaaggcctgg	cctggccgcc	tcctgctcac	tccagatggc	agggggaccc	1620
tgacgccggc	acgagcgag	cacgaggacg	ccgccatcgc	cgccggctcc	cccgtcttaa	1680
cagcagggac	ttcagtccaa	ggggaagaca	ttcagacctg	gctctgaagg	aaatctgtgt	1740
caccatgcat	tcttttaaca	gagtgagggg	cacttttgcc	acgaaaatgg	tccccggatt	1800
tggttaagccg	gtacagcctt	tttcaaagct	ggccctcggt	gctgcccacc	cgctccccag	1860
caggcccttc	agcagcgcat	tgggggctgc	gggacccagg	acgcctcgcc	tccctcagct	1920
tcatgagaac	aagaccctcg	tgctctgggg	tccttggtaa	ggatgaaaca	aggtgtgaca	1980
agcacacccc	gctttgttcc	tcgctgtcag	agacctcggt	ggcgggtggt	gaaccagaaa	2040
caggtgtggg	ttcaatgaac	cagcgacgga	acggtgggag	tcaaaggggt	cctcttggga	2100
gagatggagg	gtcttttggc	ttctgatgat	taagggtctg	gctgaatatt	gaccaagaat	2160
catccatgtt	ctaagcacia	taatcctcaa	aagagatgta	agagaagacc	ttcgctccac	2220
gaagagcccc	cttttcctt	ctgggggaag	gagggggccc	ccaaacgaga	ccaggaatta	2280

US33026.ST25.txt

cctggcgagc	ataaactgag	ggcctgaagt	ctcgaaaagg	aggcagactg	gaggtggcca	2340
cagcattacc	aagccacaca	agagctcaga	cgtcttatct	aacgcgagag	ccgcctcaga	2400
gctccaccaa	ggacagacgg	gctgtgctgg	caccgacaag	cagctgacag	ggctcggccc	2460
ctccgtggga	aagctgctcc	cacacgcatg	gcaccgttcc	agcccaaccc	tgggcccggcg	2520
aacactgctg	gggctgattc	cacaaggagg	caggcaaggc	ctgtgggggtc	accggggccg	2580
agcaccttct	ggaacacagg	cccctgggtc	tgagctgggg	tggggaccgc	gcggccgccc	2640
aatccccag	cgctctgac	atggctgcac	agcctccctg	tggctctggg	gccagccac	2700
ggatcctcca	tcaccccacc	ctgatcctct	ccctcatagg	catggggact	cttcctgcc	2760
ctgcaccct	tctctgggaa	gtccaacccc	ttctctgagc	cccagaagac	gctggtgtgg	2820
aggagctgct	ctgatgcggt	gccatcacag	ccgccaccct	caccatgtcc	ccgccaccct	2880
cagcgtgtcc	ctgccaccct	gcaatctgca	aaggcagggg	cctccctcca	gcctgcggga	2940
cccacacagg	cagcacagga	agcctgcagc	ccctccacag	ggggctcgga	gacagtccac	3000
atcaggtgcc	aagtgtccac	tgtgcttagt	tggcaaaaca	gagtctggtg	gtcctgggac	3060
tctgcagatg	cttctggaag	gagtcctatg	ggggccacag	ccacgtgtac	cctcactgta	3120
ggaggacaga	ggtcccgggt	gtggcgacaca	tcagggggccc	ttcagacgcc	attctgcagc	3180
aaggactggc	ccgtcgcgac	ccacacgagg	gcctcatccc	tgccgagttc	catgtcgcca	3240
ctgccccaac	tcaggcaggc	aggtcctgag	ctttgtgaga	tcccacgacc	agcctttttt	3300
tgtttccctt	tgcttttaag	ctgcttcctg	gacttggaag	ccaggcctgg	cccaccccag	3360
ccttctggaa	gcatctaaaa	agtccagctg	gcagctctgc	caggggctcc	ctgcccacgg	3420
gctgtgggcg	ttggctggct	gttccccgcc	ctgattgtgc	ttcagcccag	ccctgccatt	3480
gccctcaaat	gggcctgtcg	gttctggaat	gttctgcctg	ctgtgcggtg	gcacagtccc	3540
tgctctgtg	tgggtggccc	ttccctgacc	ccagacatcc	actagccaca	gaatccacta	3600
gaatctgcta	gagaaagctt	cacggggggt	ttaactctga	gcttaagcaa	acacgaggcc	3660
acgttatcac	caggttccag	tgagagtaac	tattgatggt	ctctccatgg	tgaccctggc	3720
ccacagcgcc	cgacaggagg	ggagagggct	ctcaatattc	tcagcagacg	gtggtgaaag	3780
aggactgctt	ttcacattta	ctgtgcagtt	tgtgtttggg	caagctgaaa	ggccaattt	3839

<210> 16
 <211> 1866
 <212> DNA
 <213> Homo sapiens

<400> 16						
tcagacgggtc	gagtgacagt	ccaaacgggg	tctggtcacc	tggggcgggg	acttgctgac	60
cagcatagac	aatgacagct	gtccccacag	gacaccttgt	tggagtgtgt	gaataagaag	120

US33026.ST25.txt

gtccccgtac	tgctgtctcg	gggcatggct	cgcctggtgg	tcatcgactc	ggtggcagcc	180
ccattccgct	gtgaatttga	cagccaggcc	tccgccccca	gggccaggca	tctgcagtcc	240
ctggggggcca	cgctgcgtga	gctgagcagt	gccttccaga	gccctgtgct	gtgcatcaac	300
caggtgagca	ccaaggcagg	gttgcacccc	tgagctcgta	tttttagcca	ggatgcggaa	360
gcagagccgg	tctggagggtg	gggcggggtg	cagtgagggtg	gcctccggct	cctgcgggta	420
gcagcctgtg	cctaaccatc	gagaagaccc	tcagccgttg	cagctgacct	ggactgtgct	480
cttccagggtg	acagaggcca	tggaggagca	gggcgcagca	cacgggccgc	tgggggtgagt	540
gcagccatgt	ggtgtgtgca	cctctgtgca	ggtgccaggg	gcacagctgg	gccgaagtgg	600
gcggggccac	caagcctgag	cgccagcttg	cctgcttcct	gtttctcagg	ttctgggacg	660
aacgtgtttc	cccagccctt	ggcataacct	gggctaacca	gctcctggtg	agactgctgg	720
ctgaccggct	ccgcgaggaa	gaggctgccc	tcggctgccc	agcccggacc	ctgcgggtgc	780
tctctgcccc	ccacctgccc	ccctcctcct	gttcctacac	gatcagtgcc	gaaggggtgc	840
gagggacacc	tgggaccag	tcccactgac	acggtggcgg	ctgcacaaca	gccctgcctg	900
agaagccccg	acacacgggg	ctcgggcctt	taaaacgcgt	ctgcctgggc	cgtggcacag	960
ctgggagcct	ggttcagaca	cagctcttcc	agggcagcgg	ctccactttc	tcatccgaag	1020
atggtggcca	cagactgacc	cccatctgag	ctggggggat	gttctgcctc	tccctgggtc	1080
tggggacagg	cccgttgcct	gggtacctgg	tccccactgc	tgagctggcc	cttggggaga	1140
ggtgattctc	agggctggag	cctgggggtg	cctacagtga	ctccctggga	gccgcctgct	1200
tcttctctcc	acatggaagc	ccaactgggg	ttgcgtctga	ggcctgcccc	ctgggctggg	1260
gcctcagacc	ccctcagcct	tgggaccgtg	cccacgaggg	tctccccctc	tgcacacagg	1320
gcagtcctta	ctccccacc	actcaggcca	cagtggggct	gcaggcaggc	ggctcctcct	1380
cacccacctc	tgggtccttg	gctcccgggg	gccccacctc	ggcacacact	gtgccccaca	1440
aaacttcagt	gtggtacaag	gtggagaaag	catatcccac	caacctccag	tgtcagggtc	1500
caggagagcc	tgggggtggg	gggactgcct	tgtctctagt	agtgtggcct	gtgccagcac	1560
cacagccggt	cagaggagcg	caggcagcgc	agggctggca	cgtgacaggc	tcgtcagcca	1620
cctgggaaca	cagtcttggg	caaagaggat	ccgaggttga	gaggaaggag	ggtcccgggtg	1680
tatcctggcc	ctgggggtct	gggcgtccag	ctcagccctg	gcctggctgg	gtggtattct	1740
ggtagggata	tggcaggact	cctggcaggg	ccacctgcag	gaccctgtcc	tgcagtccca	1800
cactgtgcag	accagtccc	acactgtggc	caggccttac	atctggctgg	aaagcagagc	1860
ctcctg						1866

<211> 1607
 <212> DNA
 <213> Homo sapiens

<400> 17
 ttttttttgt cacctagtat ttgcaacaca ttgtatgggc aaactattga aataaaaaat 60
 taaaggagtg atgatttata accttgagca gtttataatt ctatagggga atagacatgt 120
 gaccaacaag catttgggta tattgggtggg tcctaaggaa ggtttgataa atgaggtgct 180
 atttgatctg gatattaaag aacaaattat attttgagaa gtgtaaaata gggaaagaaa 240
 atttggggct tgaacaaaga aatctgagtc acaagatctt aaaagtctat gtcacagaat 300
 agccctcttt gtctgtctcg tatcatcatt agttattact cctccaggga gaggggtggtg 360
 aatattgatt ttactgatac agcaatttga catcaaatgc actttctttg tgatttccac 420
 aggtaaacac aggtaccaat ctaccagact atttcaccat cccttaaatt agcaagctca 480
 tgtggcagct tcgttactgt cacatgtaac tgcagcagta gtggccaaaa gaatgtcatt 540
 tgttattcat gaggtgctca ggtaatatat gactttcatg gttatatact ttttcataga 600
 ggctattaat ataatactat taattagaaa tttctcattt ttttttctct ttaggtaacg 660
 tgaaagtgaa cttatcaaat gaatagggac aaccagtctg tgggtgtctga attcgtgttg 720
 ctgggactct caaattcttg ggagactcaa gatttttctt ttttgctttt cttgtctttt 780
 ctatgtgtcc ggtgtgatgg caaacctcat tgtagtgggc attgtaacct ctgaccctta 840
 cttgcactcc tccttgatata ttttgctggc caacctctct gtcatatgat tcacattttg 900
 ctccattgca gcacgcaaga tgatttgtga tattttcagg aaacagaaaag tcatttcctt 960
 ttggggctgt gtagctcaga tcttcttttag ccatgctggt gggggcactg agatgggtgct 1020
 gctcatagcc atggcctttg acagatatgt tgccgtatgt aagccccttc actacctgac 1080
 catcatgcat ccaagaatgt gcattttgat tctagtggct tcctgggcca ttggtctcat 1140
 tcactcattg gtccaattgt cttttgtagt aaacttgccc ttctgtggcc ctaatgtggt 1200
 ggacagcttt tactgtgaca tacctcagct catcaaactt gcttgacaaa atacctataa 1260
 actgcagttc atgggttactg ctaatagtgg gttcatttcc ttgagtgtt tcttcttgct 1320
 catcctctct tacatcttca ttctggccac tcttcagaaa cactcctcag gaggtcatc 1380
 caaggctgtc tctactctgt cagctcatat tactgttggt gttttattct ttggtccact 1440
 gatttttttc tatgtatggc cctctcctcc aacacatctg aataaatttc tagccatatt 1500
 tgatgccatt ttcactcctt ttctgaatcc agtcatctac acattcagga acagggaaat 1560
 gaagattgca ataaggagag tgttcgggtca atttatgggt tttagaa 1607

<210> 18
 <211> 2567
 <212> DNA

<213> Homo sapiens

<400> 18

ttctctgctt	cttccttggt	ttctctccac	ccttgagagac	ctttttctgc	tgacaaccct	60
gtgtggatgg	atgcatccat	caaaccaggc	tgctattcgc	tggatctctc	agaacgcca	120
ctggagtccc	caggccgctc	ccgttgccct	ggccaaaaga	tgagtctcaa	actcccatca	180
cctctctctc	ctcaggatgt	tcttgagtcg	aagaacagca	ccatcaagga	cctgcagtat	240
gagctggccc	aggtctgtaa	ggtagcgctg	tgccctgccc	tccctcaggg	gcacccctc	300
gggtgcccaga	ctgttctaaa	tgacagcgg	ctctgaggac	cccacctgtg	cccacttcgt	360
acctcgtttg	acaaggcagc	tgtcactgtc	cccacgtgag	gggtgcagtca	tagccgagag	420
catctggatt	ctgtgtggtc	tggggcagtg	cactgctgtc	taggccatgt	ctctgctggg	480
atgggtgtag	ggggggacct	ggacgcttcc	ctggtcagcc	ccttcccctg	ggcagggagt	540
cagaagggtgc	tgtgcccacc	ggggaaggaa	acagacgtca	ttcaacaggg	gaagggaggg	600
cgtgaagaac	ctgagtggga	aacaccagc	cagggcccag	agccctcca	gaccacagct	660
ctgccctgag	tgtccctgcc	ctctgcctct	gtctcgtcat	ttgtggaata	ggaatagtga	720
cagcctctcc	ctgtcgtgct	acctgagcca	acgcagtga	gggtgcttga	gctgtgtccc	780
acacgggaaa	tgactgataa	gcctttggct	ttatccttct	gcaccgtgat	gctcacgctg	840
cccctccatg	gagctgcact	cagctctgg	ggctctgagc	gtggggacct	tcagctccct	900
gacactgccc	tgtctccaca	ggcccataac	gacctgctgc	gcacgtatga	ggcaaagctg	960
ctggccttcg	ggatccctct	ggacaaagt	ggcttcaagc	ccttggaac	agctgtgatc	1020
ggacagacgc	tgggccaggg	ccccgcggga	ctgggtgggca	ccccgacgta	gctgcccccc	1080
tggggggcca	cagcccagag	aaccagccta	ggaacactcg	ggatgacacc	ccttatcaca	1140
ccaaggacag	caagtttttt	agattttatc	atcagcaaat	gaaagctttt	cacatgttct	1200
tgccatcctc	tttctgggt	ctgtggagga	gaaccacctg	caggaccctc	acctatgggtg	1260
tccctgtcgc	tcccttccct	gggtgccgca	cgctccagcct	gtgtccaggc	ctactccctg	1320
gtctcacctc	cgaccacagt	cggcggcacc	ttctcagagt	gccccgcact	cacctggggg	1380
ttggggcagt	gccgcgctgt	gctgcctgtc	ttcgcgccac	tgttgtcca	ccgaatggac	1440
agctttgcag	gtgctggcac	taacttcatt	gacacctgag	tcacagctgc	ccagtgggat	1500
tctccagggg	gccgggactt	ccctaggaag	tggtgagcca	atgctccctg	atgagcacia	1560
agcccgtctc	gttgagggct	gggtgggtgc	agccagcgtg	cgggaacggg	caggcagcct	1620
cccgtgcca	gtcttcgctc	taactccctc	ggtaggtgat	gtaggaccag	gggcacgtgg	1680
aacttctggg	ccttgctgg	gatggttaaa	acaacctgag	atggagaggc	caggagagag	1740
tataagggga	tagcagcaaa	ccacctatct	ggccccaaca	cacctgagag	aattcagcag	1800

```

cccagactga gggctctggga tggggtgaac cttccgcacc agaggggacac tccacagaag 1860
ccacagccca gtaagtcagg cgcttctgcg gcggctccag tgtgggggtga ggcagtgagg 1920
ttaggcccag agagctggag ttggctcaga tgaaaacctc tgtcaacaaa gaggggatga 1980
atcacccctt gcccagcctc cccacaaagc ctgaccctgg gcaggtgagt gacgggtgtg 2040
tcctcgtaga gtctattgct gcctggacac ctttcttttg ggagctcaaa gcaagtgagc 2100
tcacctacct gccaccgccc aggaccagtc tgcccactgc ctaaagtatg cccggccagc 2160
aggacctggc ctgcagatcc cagtgaagtca tgagcctcag cccctccag cccactgggg 2220
ctctcacctc cacatgtggg tagaagcttt cctgccccct cttcctccag tagccctcag 2280
tgtcgaagggt gagcttgtag gtgcctgcct tcatctggtc caggacagtg accatctggg 2340
tctgtgtagc tggggagagg atgaggctgc agagatgggg accagaagcc cccacccca 2400
gctttcctgg gtctgcatcc cagtgggcct cagacactgc cctgccacct gtcagacttg 2460
ggtgagcaga cacagtgagg ctgttaggtc ctgcagttcc agagcagtct agggacacca 2520
ctgccctgtc ttaggaaat cacaacacag agaagcaaaa agggaaa 2567

```

```

<210> 19
<211> 2082
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1774)..(1873)
<223> n is a, c, t, or g

```

```

<400> 19
taagggttag ggttgggggtc agtggttagg ggtcatgggt aagggttaag ggttgggggt 60
gggggttagg gttaggggtt aggggttagg gtaagggtta aggctaaggc taggactagg 120
gttaggggtt ggggttaggg ttgggggttag ggctagggct agggctttga ataaacttat 180
atggtagcca agttgtgggt acagtgggcc ttgggtgaga ccaagttcta tgcctacttc 240
aagtgtgaac cagcacagtc tcagtggctg tggcctcagg ggtgcttatg ttacccaac 300
tccagctgcc acatgcctca gcagagaaag agagactgct ggtttcagag aaagaaaggg 360
aagagaacaa gatctctact tgaaaaatca agagaatttt tcttgatgtt aatccaaggc 420
caccaaagca gcacctctac gtgtttgcta ctatgtattg ggcttgggac ctaagtctct 480
ttgaacacct ggaaagtgtt cccaaaaata atgggcacca acaagcccag actgtgaaga 540
ctacaataaa gactgacctc ttcaatgccc acatatagat gaacatctat aagtatcaag 600
gccatgccag gaaaacatga cctcaccaaa caagctaaat aagtcaccag gggcaaagtc 660
ctgggaaaaat agagatatgt gacctttcat acaggaaatc caaaatagct ggttgaggta 720

```

US33026.ST25.txt

attcaaagaa attcaatata acacagagaa ggaattcaaa attctatcag ataaatttaa	780
caataagatt taaataaaaa gaataaagca gaaattctga agttaaaatg caattatcat	840
actgaagaat gcatcagagt tacttttaaaa aattgatcaa ggagaagata gatttagtga	900
acttgaagtc agactatttg aaaagacaaa gtcagaggag acaaaaaaga ataaaaaata	960
aagcatgcct acagaatcta aaaaatagcc tcaaaatagg aatctaagag ttattggcct	1020
taaagagggtg gtagaaaaag agataagagt taaacattta ttggcccggt gcagtggctc	1080
acacctgtaa tcccagcact ttggaaggcc aaggcagggtg gatcacaagg tcaggagatc	1140
aagaccatcc tggctaacac ggtgaaaccc cgtctctact aaaaatacaa aaagaaatta	1200
gctgggcacg gtgggtgggtg cctgtagtcc cagctccttg ggaggctgag gcaggagaat	1260
ggcgtgaacc caggaggcgg agcttgagcgt gagccgagat tgcgccattg cactccagcc	1320
tgggctacag agcgagactc cgtcaaaaaa aaaaaaaaaa ataaacattt atttaaagaa	1380
ataatattaa ataatattaa acaattcccc aacattcgat atcaacattc aagtacaaaa	1440
aagttacaga acatcgagca gatttaaccc aaagaagacc acctcaaggc acttaactga	1500
actcccaaag gttaaggata aagaaatgat tctaaaagca gcaagagaag agacacaaat	1560
aacattcagt ggaactccag tacatctgac agcagacttt tcaggggaaa atttacaggc	1620
tgagagagtg gatgacatat taaaaaagct gaagaaaaaa aagactttac tttagaatat	1680
gtattttggca aaagtcttaa attgacagag aaatagaact ttttcgagca acaaaactgg	1740
ggttctttac aaccgactgt ctttagaaat gtannnnnnn nnnnnnnnnn nnnnnnnnnn	1800
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	1860
nnnnnnnnnn nnnctggtga gtatgtggtt gcattgcgaa gttctcgatg tgtgtttctc	1920
acctccatca ggtcagttat gttcctctct aaactgaata ttctggttat caccttctgt	1980
aatttctttt atgattttta gcttccttgc attaagttag aatgtgctcc tttactcagt	2040
gtggtttggt attaccacc tcctaaagcc tacttttgtc aa	2082

<210> 20
 <211> 3362
 <212> DNA
 <213> Homo sapiens

<400> 20	
gacggaggca gcacatgagg atgagaagct gattggagaa gaggatgact gcagtgctaa	60
gagcagcgtg gtcaggttgc caaggatgga gcagtgggca cagcaggggg acttagggtc	120
ggcggaggag tcggtgagga aaggagggtt tggcaggaag tgatcaaagg ggtcatgttt	180
ttgtcaggat gtgggacttg gatgtgttct gtgtgaagga gccagggcac ggggctgtgg	240
tgatgagggc ggccaggctt tgactcattt gcaggcggct ctgtgggggc tcagtgagac	300

aacgaggggc	gtgtgccctg	cacccacagg	gatgtagagg	gtcctgctcc	tccctactga	360
gggtgggtcag	gggtgggcagc	aggcacccca	cctgggtgagc	tggaagcagc	gtgggaatca	420
cagaatggac	gggaacttaa	aggctttgct	tggcctggat	tttatcttga	aatacttttg	480
acagctggct	ggttgaggggt	atctgctcac	aggaacgccg	catttgctgg	ctttgtccac	540
tagtgctcgc	ccctggctgc	tgatgcggag	cctcacgtgg	ccgcagcca	agagtaggga	600
ctggcttggc	cacctccagg	ctaagcttcg	gactcccagg	tggtctgggag	ggccaggggt	660
gcacaggtgc	atcagagcag	gtgctgcctt	gctggagggc	cagggctctt	ctggccaggg	720
tccaggtcat	cattgtcccc	agccaggaat	ccaaggggcc	tttccaaacc	tgcagggcag	780
aggggaattcg	ggtatctgtg	cttgagttag	cccctgggcc	caggagcctt	cgcttgctgt	840
ctctgtttct	caaggggcct	ggcctggtga	gggagggggc	taggctggag	gagggatccc	900
aagggaggtg	agggggcttt	gtcagcctcc	tcctgccctg	cctgtgcagg	gtgttgca	960
cagtccttcc	actgagtcac	tgcatgggct	ctcccaacat	ccggtgcaca	ctggcagctg	1020
ctctaagcca	actcctagcc	cccaccactt	gaccaacaca	aacactgagt	gggtgaggca	1080
gaaggggagc	gctggggcct	ggctaggcca	aggcttcctg	cttcctggct	gaatgatcgc	1140
acccgaggac	tggtctctctg	gagcttcctt	tgtctgcttt	atagctgctg	ccagtcacaa	1200
gaccagggga	agccaggtgg	aaaggaactg	ataccagca	tttgtcatgt	gtttttaaca	1260
gtctggcttt	gtgggggcgg	ccacagtggg	ggaggccctg	cctggtggtg	gaagccagag	1320
gtgcccacag	gaggcacacc	tcattggtgca	ggcttgaggg	atggcaaggt	aggcagaggg	1380
gtctggacac	agttaggtgc	agccccctcc	caccaggtca	gaccagggag	atggtgcagg	1440
tgcacagagc	aggtccctgg	cccaggcagg	aaggcagctg	caccctccct	gcagcacagg	1500
atgtctggat	gtgtactagg	gcagagagga	caggagccta	gggaggctcc	acttccaaac	1560
tgtccgtccc	acaggggacg	gggcttgctg	cttgctgcga	gcactggagc	ccctggaagg	1620
tctggagacc	atgcgtcagc	ttcgcagcac	cctccgga	ggcaccgcca	gccgtgtcct	1680
caaggaccgc	gagctctgca	gtggcccctc	caagctgtgc	caggccctgg	ccatcaacaa	1740
gagctttgac	cagagggacc	tggcacagga	tgaagctgta	tggtctggagc	gtggtcccct	1800
ggagcccagt	gagccggctg	tagtggcagc	agcccgggtg	ggcgctcgcc	atgcagggga	1860
gtggggcccg	aaaccctcc	gcttctatgt	ccggggcagc	ccctgggtca	gtgtggtcga	1920
cagagtggct	gagcaggaca	cacaggcctg	agcaaagggc	ctgcccagac	aagatttttt	1980
aattgtttta	aaaccgaata	aatgttttat	ttctagaaaa	ctgtgcctta	gccagagctc	2040
ctctaggtga	tcaaccatg	tctggagcta	gctcttcctc	caggacacga	gagctggggg	2100
cctgagtacg	tagcgccagg	cccgggtgtg	atgctgggga	gaatcatcag	tgtgggagcc	2160
gaaagcccc	gagggtgggg	tcctgcacag	tgggccatgc	ctccaccagc	aagatgtgca	2220

US33026.ST25.txt

caggtgacag	ggcttctcca	gcctagcagg	gccagcccag	gccctcgtgc	cccagatggt	2280
caggaccagg	tcacagcttg	gctatgagcc	tgtttgcggc	ttctgtggac	tgtggtgagg	2340
actgggccag	gaaaggctca	gggtagcctg	ggaggaagaa	gcgcatggca	gacagaggtg	2400
ctggggaggg	ggccacaggg	cacttcacaa	atagaaggct	gtcagagaga	cagggacagg	2460
ccacacaagt	gtttctgcac	attcttcagg	gtggccacag	actggggggg	ccaaggagca	2520
ggtgtagggg	cagaaggagg	gtctgagaaa	cgcacagccc	acatgggcct	tgaaggatgc	2580
ggcctcacc	agagacagga	gtcctggcag	gccccctcc	agcgtggaga	tgcctacgcg	2640
tgcggcaagg	actggaggga	agcgtaggaa	cacagagggc	agcagcccca	cagcgggaacc	2700
accaggggca	aggacagcgg	ggctctgcag	gcttcaactg	gccacggcca	gcccgcattc	2760
acccaatgcc	aggcctcagg	gccaagaggg	ctcagcctca	gcacgggggg	agccctgggg	2820
tggggagacg	cgagcgccca	cctgcgcacc	ccagcagcct	tccgccctcc	gcctgggctc	2880
aggggagcag	agcctggaag	acggcaatga	cagggtcctc	gtgggtgggtc	accaccagca	2940
cgctgcggaa	cttgtcaaac	agcatgagca	gctgggagcg	ccgcgtgttc	tcgttgtaca	3000
taatctcctc	caggtggtgg	cggccgcgga	agtagtgaag	gagcctggaa	gggatgggtg	3060
ggtgtgagcc	caacctgaca	ccagccccca	gaggcctctg	ctgaagagcc	actgctggga	3120
atcagctctg	agctgcccac	aggcctgaac	agagctgggtg	gtgaaggcca	gggaggcagc	3180
caccacagcc	ccccaaacaag	ggtgggcagg	cctcctggac	cccatgcccc	ccacggtccc	3240
gctgaccacc	aggtgggcgg	agtgggttca	ggacggcaga	cggctgttca	aaccagagg	3300
tgcccaagcc	tgcgtcctga	tgttgggacc	agggttctgc	tgggtggcttc	tttttcgtgc	3360
ta						3362

<210> 21
 <211> 2219
 <212> DNA
 <213> Homo sapiens

<400> 21						
cagctgttca	gaaaatccag	gtgtgtttcc	acctgcaaca	atgccgagct	gtcagcttag	60
acttggaagg	cgctaagagc	tggggaaggc	cacatttggtg	gtctggttcc	aggccttgcg	120
ggtcaccatc	cctggctgta	ttagtccttt	cctgcactgc	tataaagtac	ccaaggctgg	180
gtaattgata	aagaaaagca	aagtaatggg	ctcacggttc	ctcaggctgt	acaggaagct	240
tgatgctggc	atgtgctcag	cttctgagga	ggcctcaaga	aacttacaat	catggcagaa	300
ggctaagggg	gagcaggcat	gccacacggg	cagcgcagca	gcaagagagt	gaggcgggag	360
gtgctacca	cttgtaaagt	gccgagctcg	tgaggactca	ccaaggcgga	cgggtgctcaa	420
ccagtcattg	gaaaaccgcc	cccgtgatct	agtcgcttcc	caccaggcgc	cacctccaac	480

US33026.ST25.txt

gctgaggggtt	acaattcgac	atgacacgcg	gggggggacac	agatccaaac	cacgtcatca	540
gctcttttcag	agggagatgg	ctctggaccc	cacttttagag	tctggctgat	ttgctctccc	600
agggtgcgcct	ggcacagctc	tcaggttctg	caggagccgc	tgggcttgga	cgaagggccc	660
tcccgcagtg	tgaggagcct	ggcgacctgg	cccggctctca	ccccacagcc	tagggcagag	720
atgccacaaa	gtcacagact	ttcagggcca	agagaccctg	gagtgcgtct	gactcggcct	780
cgtgttttcac	aggggaatctg	aggcccgcac	tggccaagtg	acctgtctgt	acttacacac	840
tctggaggga	gcagagtggg	ggagagtggg	gctatggcct	gagtgattta	ttttagaatg	900
cagtcatgca	ttgtataacg	aagtttgtca	atgacaggct	gtatatccag	cggtgggtccc	960
ataagactac	aaagcagctg	aaaattcccc	ttgcctagt	aggttgcggc	gtgtaatgtc	1020
acagtgaac	acgttatcac	tcgtttgtgg	tgtgtctggg	gtgaacacac	ctattacact	1080
gccagtcaca	tacgagtggg	cagtaatgcc	ctggggccctc	acactcacca	cacactgact	1140
ctcccacagc	gactccagtc	ccgcaagctc	cattcacggg	aagtgtctta	tacacctgtg	1200
tcattttaaa	acatctttta	taccgtat	ttactgtacc	ctttctatga	ttagctacac	1260
acataattcc	acggtgtcgc	agttgtctaca	tgctgcacag	gtttgtagcc	caggagccca	1320
ggctctccca	catagcctag	gtgtgtctgta	ggttctgcca	cttagattta	cgtccgtgct	1380
ctctatgatg	tctgcacaat	gatgaaattg	cctgacaaca	catctcttgg	aagtatccct	1440
gtcgtatcct	ggttggttagg	tgacacatgc	ctgtacttct	gtgtgaatga	gtttgagtaa	1500
gatctcatct	gcacacacat	taagggctgg	ctagccttat	tagcataagg	aatgtggcag	1560
tgggttttct	ttcatttatt	tactgttttt	gaataggggtc	ttgttttgtt	accaggctg	1620
agtgcagtgg	cgagatcatg	gtcactaca	gcctccaact	tctgtgctca	agcaatcctc	1680
ctgcctcagc	ctcccaagta	gctgggacta	cagctatagt	gattttgata	gggggggaat	1740
ttgttggggg	tcactgaggc	gggctggggc	acacagacca	gggctcccca	caggggcctc	1800
tgaggcacac	agaccagggc	tccacaacaag	ggccctctga	ggtacgcaga	cagggtgag	1860
gcacagagac	cagggtctaa	gagctgctct	gccaggatt	cctgtggctg	ctgtgaactg	1920
agtgtcctg	gccgaggacc	cacagcttct	gggaagtgtg	ggttggggct	cctgatctgc	1980
tggccctcc	ctagggatgc	agagcacaca	ggccctgggc	ctggagtgtt	tccatccatc	2040
cacacatcct	tcttcccatc	aggacactgg	tccatcctct	gttcatctgt	ccatcctctc	2100
agatgtcctt	cagcacattg	gtccatgcag	aatatctatg	cacctgtctc	tccatccatc	2160
tgtccaatgc	tccatcagtc	tgtccatcat	ccatcctccc	atctgtcctc	caccacccc	2219

<210> 22
 <211> 4984
 <212> DNA

<213> Homo sapiens

<400> 22

tccttttcctt	ttttgccttc	ttcctcatct	gccctgtctt	ctggcccaca	cactcttaac	60
cagcgttcac	actcagtgtg	catggcctgg	aggcccgagt	gtttgtacat	gagtgatgat	120
gtcaaaccac	gctggtaaca	ccttccttgg	gtcatgtttg	ccatttttctt	ggaatgaatg	180
tgagttcctg	ctcagggctc	atgtcctttt	acagtgaatt	ctatataacg	cccctcccag	240
tctcacagct	aggaggcttc	atcactgcta	ggccagttgg	agcgttccct	agagctcaga	300
acaaattgtt	tcctctgctg	tccctaaata	taggacacct	acaagcactc	tgaagcaagg	360
gcagacattc	ccacctggta	cctgtcaaag	tcctaggatg	cctgggatct	tccatctttc	420
agtctagcac	gtgggaccaa	atacaagaga	tgctgccctc	acaacagcct	tggaaaagat	480
gagcgccagg	gctgtcagta	cccctcggtt	cagtaagcga	ggcattgtcc	acgctgccta	540
ttcactcgag	agatgaatag	tttctgtttt	tcgatggctg	gggagccagt	atgagctcat	600
aaaccaaaaca	gcaattttca	gagacatctg	ttcctgatct	tcagaataaa	ctcagtgtcc	660
agttgcttcg	gctggtggga	gccaatattc	acgccactga	ctctctcaaa	gggaggggtg	720
gccctcggag	accagcttc	tctgacaagc	agattagacc	aaaaggctgc	ctcaaagata	780
tgccactttg	aaggaaagcg	tagagaagcg	tttacataaa	agaagacgct	tcctgttcag	840
tggacaactt	catgccactt	tcaaggcaca	ccgatggcca	ggtgggacat	ttgtactgta	900
gcagcacatg	gcaaagggtg	gccagaagca	gcctggatgc	tggctgatcc	ggaggccttt	960
gtgaagagca	aggagagggc	tccagcccac	ctccccgcag	ctctgcccc	gcccccgtag	1020
gccacagggg	ggctcaaggg	gagtgaacta	ggtaaacaga	ttcctggaaa	ctcacatctg	1080
gatgcagctg	gaagagttaa	atattttacat	tggtggcttc	cctggaccac	cgcgaaacaca	1140
aacatccaca	ccacagggct	gagttttgtg	caaatgatgg	ggctttgcat	tttttattaa	1200
cattttcctc	tcacgtgggt	tacatcaatt	tataataatc	tacataagtt	gaaacagaac	1260
atagacaaaa	aaatatatcc	ttaccaactt	attaaagtca	gatattcatg	aagggtccca	1320
tcctacctgt	gtatcagcag	aaactggcag	ccatcagcca	ttgcccagca	agaacaggca	1380
gacctggcgt	ttcttagcct	gactcctgct	gggcacagcc	caccctgctg	ggcacagtga	1440
ctggagggtt	caggctgcac	agtccttggc	tcctgactcc	tgccgggctg	agtgactgga	1500
ggtttcgggc	tgcatggtcc	ccggctcaca	ggagaccctg	ctgggtgttt	ccttggtgca	1560
gttttagtcca	ggtctggcac	ctgaccctcc	ccactctggg	ggtgggattt	ataaatatga	1620
gcctttgcat	ttctcagcct	ttgcagcctt	cccatagcct	gttctcacgt	tgccctcagcg	1680
agcttggggc	tgtggggctc	cctgaggctg	agacgcgaag	gtgcccagtc	tgggcccgtga	1740
ctcactctgc	cccttcctgt	ccatcacttt	ggaagcaagc	aggagccttc	tgtgccacac	1800

accgacactc	ggatgccagg	cagggacctt	aggaagggcc	aggcactgca	tcttttagact	1860
caagttcacc	gcctttccca	gggagcaagg	gctccttgct	aagctgctca	caggcagccg	1920
atggtcagta	cttccttcct	cttgggcatg	tctttcctcc	gtgcacagag	tatttactgt	1980
tctgccccag	gccacaggag	taaacaggct	caaaaagggc	ctctcaccgc	gcacgcgctg	2040
cagcgtagg	gccggcaaac	ccttctttta	gactcagccc	tgagcacaag	caatgggaac	2100
tgagctcccc	agccctgagg	gcccggaaac	gacgctctgc	cacacagaag	agccggggag	2160
ctgtaactgg	ctataagtcg	agcccctgga	gctgcatctg	ctctcctagg	ctgatggccc	2220
gaggctggca	gccgcagctc	gtgtgggaag	tgtacggtgg	gaacacacct	cactccttcc	2280
tagtaccggg	caatgcgtct	gcaagtcggg	tccctgctcc	ctggcgggtg	cctacagcac	2340
caacaaggag	gccccagcag	aaccagccc	ctagaggcgg	ctgtctgatt	ccccactctc	2400
cccacaactt	ctggagttcc	cagtgtttac	ccaaaaggct	gtatccagaa	gctggggcgg	2460
caccacaatg	gctggccacc	gtgggcctgt	gcctttgctt	cccaggtcct	ggaggaccgt	2520
ggcagtgcct	ggctgtggag	tgtgtgtaaa	atctaaggca	agagtaccac	gaggtcctgc	2580
ggtgccaggg	agtcctggc	tgcagcctac	ctgcctggac	acctgcttcg	gccacatcag	2640
tcaccctcca	ggaagcctgg	cccctcttga	aaagcccca	caacttgctc	ctaagagctg	2700
agctgcctcc	ccgcgacccg	ggacaccag	cgtggcatgt	gcattcctcc	cccgttcagc	2760
ctgtgggtgt	tcctcagcag	cctgaccgcc	tcctcccca	ttctctcctg	accctctggc	2820
tatctcgata	gcaggtcacc	tgtgagtctt	tacactcaaa	ggaaatagaa	cagcagggaa	2880
gggaactgaa	aagcagtaga	agaaacagtc	agagatgcct	cactgataga	caggaggccg	2940
aacaggtaaa	ccccagaagt	ggagattccc	aaacggaaaa	ttccagaaat	gggcgctcca	3000
gctctgtgct	aagctgggga	cgagtgtgag	tgtgtctgct	tgtccaacat	ttgcacaggc	3060
agcaaggcaa	agcaggtgtg	ctcccaaagg	cggagtctga	ggaggggccc	gcagcggcaa	3120
acggcagcat	caaacagacc	actgctgccg	cggcaaccca	gggcctcttc	agagctttca	3180
aggcgatgga	gcgaagacca	aggggtgcaca	tgcatgcagg	caggctggga	aggaagagcg	3240
ggtggaggaa	gactgagggg	aggctgccag	gagaccgcca	tctgggagca	gggccaagag	3300
agaagctggc	agcagttaca	cagcgcaaaa	taaaaggcct	tgggctggac	tcaggcggaa	3360
agaaagtgt	ggaggaaatg	aaagaacaaa	gcgggctgtc	tgtgtgcccc	cgccggggccg	3420
gtcactacct	tttctgcctg	acaagtgtac	ataaaaacaat	tcccgaacag	cacggagcat	3480
cagacacaac	tagaggtatg	gagggcagga	ggtgggatgc	ggtggtgagg	ctggggctgg	3540
gcagccggct	ttgtacaagg	tggcacaaaa	gacgtacgca	ttccagttct	tggagctgg	3600
cttccctcga	gtctggagtg	ctgggtttgg	gagttttcta	ttgcagtctt	tcaagtctga	3660
gttggaaccc	aggctggagg	ggctggttcc	accacccgcc	cgcagccacc	ctgcctcggg	3720

US33026.ST25.txt

ctacacgtcg	gtggagaagt	acagtgtgtt	ccgcttgagt	tctgcgaagg	aaatgggggg	3780
gtgctgcagg	tagtagagga	ggacctggac	ctgtggggag	acaggaaggc	ggaggctggg	3840
ctccctgtcc	taggcctcgt	ccttgctgac	tccagcctgt	gttgcccctc	ccactcccta	3900
gactggctcc	ggccaccgcc	ccttcctggg	gagcccaggt	gtgtttgcct	ttctgcagcc	3960
gtggaagggtg	ctacggggca	gagggtcggg	ggcctagggc	cacttcccca	acctggccat	4020
aagcttctgc	tctgtcctga	ggcgccaca	gtccggcccc	tgctctgggt	cttgcaggaa	4080
tcccagggaa	gcctcccgcc	cttggaagca	acctcagagc	ttccacccat	gaggacaagg	4140
gccagcatc	tccccacccc	tgggcttgct	ttctgagact	gaggccctcc	tgagaatgca	4200
gccagcatct	ctgggccctg	gtctaggctc	acatgtttgt	tttggcctgg	gaggggcaga	4260
agtgtctaca	gtcctgcctc	cctggtgaca	ccccatagcc	catcaaccca	gcttcccacg	4320
aggggaagagg	tgtggggact	ctgagctgtt	ctctctcctc	ctaaggggct	ggtctcacc	4380
tccgccagcc	acggggccgg	gcggtgccag	ggtacctgct	ccatgacgtc	atgggaccgt	4440
caccctccgc	cagccacggg	cccgggcggg	gccagggtag	ctgcgccatg	acgtcatggg	4500
accgtcacc	tccgccagcc	acggggccgg	gcggtgccag	ggtacctgct	ccatgacgtc	4560
atgggaccgt	caccctccgc	cagccacggg	cccgggcggg	gccagggtag	ctacgccatg	4620
acgtcatggg	accgtcacc	tccgccagcc	acggggccgg	gcggtgccag	ggtacctgct	4680
ccatgacgtc	atgggaccgt	caccctccgc	cagccacggg	cccgggcggg	gccagggtag	4740
ctgcgccatg	acgtcatggg	accgtcacc	tccgccagcc	acggggccgg	gcggtgccag	4800
ggtacctgct	ccatgacgtc	atgggaccag	atgtccgcag	ccgaggtgag	gtgtgctttg	4860
ctctccactt	ctgaggggtct	cagtaacgtg	ggtccaaaca	cggtagccag	gttgtgaagt	4920
gacattttgt	tgatgggctc	cttctcggca	accctaagaa	ggagaagatg	gggaggaaag	4980
aagc						4984

<210> 23
 <211> 2593
 <212> DNA
 <213> Homo sapiens

<400> 23						
cggataaaaag	cagaagcaga	gagagcaggc	gccctggctg	aagaggggac	gtggggccca	60
ctggctcaca	cctgcttttc	caccaccct	cgctgcctt	ggggctcacg	tccctccccg	120
gaattcccac	gccccacagg	cagaatctga	ggcacacctc	agcgccccgc	cctcctttca	180
ggcatctaca	gctcaaacct	taggttccca	gcagctccta	gaggcagttc	tcccgaaggc	240
ctcgtctctc	ctcgggggtg	gggacgtggg	ggtctgagag	attaggggct	ttgtaaggac	300
acctctgggt	cagacgtga	acctgcagct	ccagtcgtgt	ctctgcttct	ctccctcctt	360

US33026.ST25.txt

tgggaaactc	agggcttttg	ctcagtggct	gtgggttcgc	cctggcagcc	tcgagagggg	420
acagcacctg	tctagtgggt	caggcggggtg	tgtctgggtc	atcttgcgtc	tccagccgcg	480
ctagggctctt	tcctgaagcc	agggcagctc	agcacttgcc	tccgagggcg	tgaacacggt	540
gtgcccattc	ctccctgccc	cagcccaaag	ctacaggcta	caactggggct	tagaccctcg	600
cccagcacca	ccaatgtcca	cgccccaggg	ccacggcaag	ggcggggctg	gccacgaggg	660
gctgctgtga	gtctgcgggtg	gccgcaggct	tgagggagggc	cagcagagcc	caccctaaag	720
gtgacccccg	ctcagcattc	atctgcagcc	tcagccctaa	ctcaagaaat	tctctggcaa	780
cccttctgtg	gcatccttct	cttgaagctt	tcagaaaaca	cggaaagtgg	gacaaccctg	840
gagctgatcc	tttgatttcc	taggaggaag	cagcagcctc	cgccagcagg	gaggtttagcg	900
gctcacgggg	aggaatctct	gtctgcgggt	ttgcctcgg	cgagttcgct	gaatgccaca	960
gacccgagag	gacactctct	gaagggtcac	ccgaggttgg	ccggctaaga	tcaaaccag	1020
gtcccgtgcc	tctgagtctg	ggagcccggc	accagagct	gagaacacct	ttttttggtc	1080
tgctcgggagg	ctggatgttc	tcagggcctg	actgcatcgg	ctcctgaggt	cctgtctgga	1140
ccggcttctc	tgcatggtgc	ccacccttca	gaggcggggtc	agggggagcg	ggcgccaagc	1200
ctgcctgctg	aggcggcact	tcccaggggt	ggaggggagc	ggggggagcc	gactcacacc	1260
tccatctgct	tcctgctgga	tgcttcctgc	ccagaatcca	ctgggcagag	tccaggctcc	1320
caaaatcagg	aacacctggg	cgatggaggc	agctgagcag	ggctgacgag	agaggttcgt	1380
gccccacgtt	tggaaaagct	ttcgacggca	gggcaggcac	tctcgaggga	ccctcccccg	1440
acttccccca	cccaggacag	gctctgctgc	ccactctcca	aggagaacca	ggcgtctaga	1500
cctgccttga	agagggacag	caggtgggag	tctgggctgg	agaacaaatg	tgcccgaaac	1560
agctgggggtg	ggcagggcca	gagcaggaca	atggctgcag	tcacggggcc	ctgggaggaa	1620
gtggagagtc	agcaggaagt	agaaccaggc	ctggggctca	gcctccacgg	tccctatgtg	1680
cctgggggaac	tggcacaggg	gtgggggtgg	cggcagaggg	aagagcccca	cgtggggccag	1740
ctgtgaggggt	ggcaagcagc	agggaggcgg	aactcctaag	ccaggagccg	aggcggggcc	1800
tgacatgcac	tcctggcctt	ggcgggcgcc	gacgcgggct	gatcttccag	ggagaggtca	1860
ctccggtgtc	ccacgacagg	gagctatggg	ggctgtgagt	gccagggcag	gggttgggga	1920
cgggagagat	ggaaccaaag	ggaaaggcct	gtgttccttc	ccagttgaat	caaggcctcc	1980
ctcaggggcca	ggggcccggc	tgtgggtcagt	gtggcccacg	cgtaggcct	ggaacgggga	2040
agcactgagg	accacgtta	ccggccgtcg	atcatcttcc	tgggaggggt	cccagtagca	2100
ccatgaagaa	cgagaggggg	ccggagctgg	aaggggtctt	gggctcaca	cccagggccc	2160
ccaggacgca	cgcgaggac	cctcaggcag	ggtcgaatgg	ggacaagaca	ccccttgggg	2220

gtcagagggga	gggaagtggg	gcaggggagc	ccttgactcc	tgccctggcg	ggctccggcc	2280
ccacgttctc	tgcaagcttc	ctcgtgctct	ccagagtaat	tgaaaccaga	agctgctccc	2340
cagccgctga	caaaggcccc	ttgtttccga	ccacaccagg	ccaagctcag	agctgccgtg	2400
ctgggtcatg	gcagggaaac	ctcgggccag	ccggcattga	gggccccagc	cttgacttcc	2460
ccgccccctgc	tatgaggttg	gttcagcaaa	gccagtctga	ccccatcagc	ttaagaaaat	2520
aatgctgcct	cggccagcca	aaggccccga	cccaggggac	cacttatagg	tgacagcctt	2580
taggaggggg	ctg					2593

<210> 24
 <211> 6190
 <212> DNA
 <213> Homo sapiens

<400> 24						
aaactgtgtc	ctgacacccc	cagacctgct	ggccagcagg	gaggggcctc	tcagcatctg	60
ggcttttctcc	ttgctcaggg	aacaggagca	cagctctgag	aactaaggat	gggggtaagt	120
gagctaggcc	ctcaaggcag	ggcacttact	aggtggaaaa	aacagcctgg	aagctcatgg	180
gcatgaaaat	gaggtccatg	gagagagctt	cctctgtggc	ccagaaacta	gaagctggaa	240
cagccatgtg	gaactgtgca	gcagcccaga	acaggatatg	ggggcctaag	tcacagcaga	300
ccagtggagag	gagaaagctg	acctcagatt	gcagatctgt	ataaagaaaa	gtagggtggc	360
ggggggagcct	tgggttcaaa	ttctggaaca	ggagggacaa	agaagggcag	ggaattgggtg	420
gtgatgagta	ggtaccactt	ctggggaaga	tgacagagca	actggacctg	aaaaactctc	480
gacttaccta	aaatatcaat	tacagccagt	gacaaagaat	tcacgccaca	caactcatta	540
ccaatcaaac	aaactactat	ggttatctca	aaccaaacgt	cactttactt	ttttggtaac	600
ttttcattat	aataataaac	tctattcatg	aatatgcagc	ctccataatc	ttctcccttg	660
taacaaacgt	gcagtccgtt	cacaagctgt	aaaaacaagc	ccaaacccaa	gacatcacia	720
gaggcaagag	cagtggcagt	gagaagggag	cctgtaaagg	atgtttcaaa	ggaggggtccc	780
aggctatgtg	gccactggat	gtaggcagtg	agctgagtc	aggctttcgg	tctgggaagt	840
ggcagaggct	gagacaatgg	ccaaagagga	gttgagagag	aaactatgct	cggtttctact	900
cctgccagcc	caacagccta	ttccctgggtg	tgaatcaact	ggtgtttgat	caactttgat	960
cgctggctga	aggctttccc	acaagcagca	cagtcatagg	gcttcacccc	agtgtgaatc	1020
ctctgggtgct	ggatgaggac	cgaacgctga	ctgaaggctt	tcccacactc	actgcatttg	1080
taggggcgct	cgcccgtgtg	gattatctga	tgctgaatga	ggtgtgagct	ctggctgaag	1140
cccttaccac	attcaacaca	ggtgtagggt	ttttccccag	tatgaacttt	ctgggtgggtga	1200
atgagatttg	agcttcgggt	gaaggcttta	ccacactggg	tacattcatg	gggcttcagc	1260

ccattatgaa	tcctctgatg	ctgaatgagg	gttgagctct	ggctgaagggt	ttttccacat	1320
tcagtacatt	catagggcct	ctctccagtg	tggactcgct	ggtgaaggat	gaggttggag	1380
ctgcgaccaa	aggtcttccc	acactcgtgg	caggcgtagg	gcttgtcgcc	tgtgtgcacg	1440
ccctggtgct	gaatgagggc	tgagctgtgg	ctgaaggcct	tcccacagac	actgcatctg	1500
tacggcttct	ctcccgtgtg	gatgatctgg	tgctttcgga	gcactgagct	ataactaaag	1560
gcttttccac	atacattaca	cacgtgaggc	ttttctccag	tgtgaattct	ccgatgctga	1620
ataaggctgg	agctctgact	aaatgccttc	ccacagtcac	tgcaactata	gggcttctct	1680
ccagtgtgaa	ccctgtgggtg	cttaatgagg	ttggagaccc	gactgaaggg	cttgccacaa	1740
tcattacact	cataaggcct	ctctccagtg	tggaccctct	ggtgcttcct	cagggtgtgca	1800
ctctggctga	aggctttccc	acactcgcca	cactcaaaag	gcttctctcc	tgtgtgagtc	1860
ctgtgggtgtt	tgatgaggtt	tgagcttcgc	ctgaaggcct	tcccacactc	actgcacaca	1920
tacggtttct	ccccagaatg	gattctttga	tgttggatga	ggtttgagct	ccgcctaaaa	1980
gccttcccac	attcattgca	ttcatagggc	ttctcactca	tgtgagactt	ttggtgcttt	2040
ttaaggctcg	agttctggct	gaaggctttt	ccacattcat	tacacatata	aggcctctca	2100
ctgctgtggt	gactctgatg	cctagaaaag	tctgagtgcc	ctcggaaggc	tttcccacat	2160
tcgctgcact	ggtaagcttt	ctcactcata	tgagatcgat	gacggttttt	aagaactgag	2220
ttctggctga	aggttttccc	acaatcatca	cacataaagg	aagcctcccc	agtgtggact	2280
atttgacgct	gaataaggtc	aggatttcct	tggaagggtt	tcccacactc	attacatatg	2340
agtggacttt	cagctgtggg	aaccggctgg	ccgaggcccc	ggcatgtcaa	gccatctcag	2400
gttgggcagg	aatgtgggtc	gtgttcacat	gtgtctctgt	gtgtgtgaga	gagaggggtc	2460
agctgggacg	ctgggggtggc	agggacagtc	ctggctcacc	cctcatcctc	cctcgacctc	2520
gactccctcc	acatgaggag	cccccccttc	ctggctatcc	tgtgagttga	gcttcctctg	2580
ctgggagggc	tttgtcagag	gttccttgcg	gttccagaag	gaaagctggc	tgcagggagg	2640
gccgggcact	ggacaccgtg	tggctgagcc	tgtggcgggg	gctgcacagc	tgggttccca	2700
gccccctcc	ttgtccccac	cccaccgcac	tgggaggccc	tgctgagggg	ccagagtccg	2760
gctgcaggtc	ccacgggtgg	gggtggggcc	cctcattagc	actgcagctg	acactgaggg	2820
cttccacctc	gctaattgat	taaactgttt	agaaaccagg	ccggcgtggg	gggaattggc	2880
cccggccggg	ctgtccgctc	cccttctgtg	caggcagcgg	cccccgaggt	tcatcagtca	2940
ggccgggttg	tgggggtccc	gccctggctg	ccctcgggaa	cccttctttg	ctcctttgtg	3000
cggtcaaaaat	ggtgagggtc	ctgagaggag	ctggtgagac	cccgggggtc	tctcctccct	3060
gaccactcac	tgggcgagca	tggagggagg	cctactgtgc	acgggcatgt	tcctgggaac	3120
ctgcctgctg	ggattaaacc	cgcccttgtg	aaggacggca	ggtgggtcac	tcaataccag	3180

US33026.ST25.txt

gaggggacg	gggctgtgag	cagaggcccc	agagccttct	gaggcggcac	cgggtgctcc	3240
tgggccctgc	tctcctggga	tttgttgtgc	ctgtgacctc	agcctcttcc	ttcctctcct	3300
gtgggattcc	cccaacaccc	cctccccctc	tgccattcct	tccccacca	ggccccatgc	3360
ctccccctcc	cagtgcctcc	tacccccagg	tcttccctct	aggacatcag	cctgggctgt	3420
gggtcttggg	ctccacaga	gactgagtcc	tgggagaagg	gcagagcctt	ggttcccagt	3480
gcagccccctg	tgccagcctg	cagtgggcac	cggttcagcc	ggtgcacact	gggtcctgcc	3540
cccacctgag	gagcggcctg	gggcctgatc	agccctgctg	gtgtctggcc	tgcagccagc	3600
accggctctg	ctattcacac	ttggttacag	gtgggtgccc	atcccagcag	cctcggagca	3660
gagtgggtcg	ggctccggag	gtgggggagg	ccactaacag	caggaggctc	tggcagtgcg	3720
gctatggcag	gggttctgag	gggcggaagg	caggggcggg	acgtggggac	gcagacctgc	3780
agggaggacg	ccggctcacc	cagcaggagg	gggatggccg	cccagggacc	cccagcctgc	3840
ccgctctgct	tccccgaccg	ccggggcagg	ggccccacgg	gggacgccag	ggaacgtgag	3900
gaatccggag	tcaacactgg	gccactgtgt	gctgccagcc	gggcggggccg	tgatttataa	3960
agacagcgga	ggcttggtcg	gtgtcggggc	ggtgaggctc	cggcggccgg	gggctctgga	4020
atttcttcag	aagaattttg	cttaccaagc	cacatacttt	tctagccatc	agtttgatca	4080
gaggcaagat	gaaaaatatg	ctaaaaaaca	aagaaacaaa	aatacacccg	gggggctccg	4140
gtgaggggga	ggggcgctgc	gggaggggtg	gagggcccag	ggaagggtga	ggggccggga	4200
gccactctgc	ccggcactct	ccgcccagaa	acagcccaac	gcccccttct	ttcccccttt	4260
agcactgctg	agctggacta	aaatgcccc	caaggaaact	tactaaaaac	tgaggcaaga	4320
aagaaaacac	acatgacata	aaaatagtca	agggcacatt	cttgatggta	gataactggt	4380
ctctggccac	agcggctgcc	aggttgggtg	tcggccggcg	ggtctgccag	tcccacccat	4440
aggcactgca	cttccctggg	ccggacaggg	ggtgtggcgg	gtctgtgggc	ggggggacaa	4500
ggttggcagg	accgtgaggg	gggtggtggg	tctgtgggag	ggggacaagg	ttggcaggac	4560
cgtgaggggg	gtggcgggct	tgtgggcggg	gggacaagg	tggcaggacc	gtgagggggg	4620
tgggtgggtct	gtgggagggg	gacaaggggt	gcaggaccgt	gaggggggtg	gcgggtctgt	4680
gggagggggg	acaagggttg	caggaccgtg	aggggggtgg	cgggtctgtg	ggcagggtga	4740
caagggtggc	aggacctgtg	agatgatgtg	agtgcagcac	agtggggctc	tgtagaagc	4800
gacccgggca	gcttgagcag	gggcaggctg	ggcgggtcct	acgggtctct	gtccaccgga	4860
gcctctgttc	agcccacctc	agtgtcgctc	cggatgtgga	tagaaggaga	cactgtctgg	4920
gccacagacc	aggtgcttcc	ttcgtcctga	ccacacctgc	ttctgcccag	gagacgctgc	4980
aggggctgtg	ctccccgccc	ggctactctt	gagtgggtccc	caggctcctc	ctcctcccgg	5040

US33026.ST25.txt

ttccacctgg agccgtgggg ctgtgccggg gatgcctcgc tgcagctgca gctcagggag 5100
 aactcactgc tggagcttct gcctctcccc tgccgtgggg ccgagccgag ctccaccagg 5160
 gtctggactt ctgcacgggc agctgtgctt cccagggctc tggagagggg tccttgggtcc 5220
 cagccactgt gtgacctga ccaggacact tgactttcct gccccagag ggtcttgtct 5280
 ggacctccag agccccagc cttgctcact tggctctgct tctgggcagg gtgccctggc 5340
 attgctgttg ctggcacctg ccgtgccttg gaggggtctc cagtgggacc tctgagcacg 5400
 gctcttcctg tacttctcag aggtgagcag agggcatttg tgggagaact ggaacctggg 5460
 gaggaaaaac cccaaggctg gcaaagactc cctgcagtct gtccagtgat ccactgaggc 5520
 tgagtgggtg aggacatgga ggccggcccc ggaccaggac atggaggccg gccagggacc 5580
 tggggaagag agggcctcag tctggtgaga ccagcctggt gggcgcttg ggaagagagg 5640
 gcctcagtcc tgtgagacca gcctggtggg tgcctgggga agagaggccc tcagtccggt 5700
 gaggagacca gcctggtggg tgcaggccac ccttgcctgc tgtcagggcc tgcccttctc 5760
 tccggcctcc agctgctttg cccagcgat caggcgctg agcttcctcc cccgagcctg 5820
 agtccagctg agctccgtgt ggctttcccg gtggagcaga ctctgtctga tttcccaacg 5880
 gctggcgctt cccagggcgt gctccttgcc acggaacagc cccttggggc caggtgtgta 5940
 ctccaggcag tggcccggca gtgctgggaa gtgccggtca tggctgctgc acgtgggttg 6000
 ctgtctggga gagtctgtg gtgtttgtg agggcggagg acaccgagga cagagaatgg 6060
 gcaacttcca gggagggccc agatgcagcc acgactgggg tgcatctggg atacctcgtc 6120
 cagggacact cccaccatg gcctggtgcc tgtccagcag gaagagcttc agggcagtag 6180
 gaagggggag 6190

<210> 25
 <211> 1689
 <212> DNA
 <213> Homo sapiens

<400> 25
 aaaattgaag agcttccatc aataagggat tggctaaata cagtatgcct cacctgtaca 60
 atagaatact gcacaatcat taacaaagat gagtgtgctg atatggaaga gatattgata 120
 ttctgatgta ctaaatatct ttctatctcc cagatttatt gttacaaagc aagaggcata 180
 aaaagcatat tccctttgta aataaatgaa aagatatgta tacacatgca tatttgtatg 240
 tatatgcgca gaatacctct gaaagaatga acaggaaact ggtaaccaca gttcatctgg 300
 gaagagcact agaggacagg gaaacttttt tgctctgtga attcttacca cgcatgtgta 360
 ttagcctgtt ggaaaaaatt agccctagaa taggcaaatt cgtagagact gaaagtagaa 420
 tagagggtgc cagaggtttt ggggtagaga ataggggggtt tttatttgat agatgcattt 480

US33026.ST25.txt

tctgtttgag	atgatgagag	agttctgaaa	tggatagtgg	tgatggttgt	acaacattgt	540
gattgtactt	aatgccactc	aactgtacac	ttaaaagcgg	ttgaaatggg	ctgggcacgg	600
tggctcacac	ctggaatccc	agcgcttcgg	gaagccaagg	tgggcagatc	acctgaggtc	660
aggagttcac	gaccagcctg	accaacatgg	tgaacccccg	tctctactaa	aaatacaaaa	720
attagctggg	cgtggtggtg	gtcgcctata	atcccagcta	ctcaggaggc	tgaggcagga	780
gaattgcttg	aacctgggag	gtggaggttg	cagtgaacca	agatcacgcc	actgtactcc	840
agcctgggca	acagaagtga	gacctcatct	caaaaaaaaa	aaatgttgaa	atggcctggc	900
acaatggttc	acacctgtaa	tcccagccct	cagggatgcc	aaggcaagag	gatcacttga	960
gcccaggagt	ttgagaccag	cctgggaaag	atggtgagac	tctgtctcta	caaatgtttt	1020
tttaaaaatt	agctgggtgc	agtgggtgcac	accctgtggt	cccagctgct	ggggaggctg	1080
agggtgggagg	attgcttgag	cctaggttgt	gggtccagct	gctggggagg	ctgaggcggg	1140
aggattgctt	gagcctagga	ggttgaggct	gcagtgaatc	atgttctcag	caactgcactc	1200
cagtctgggc	aacacagtga	gacctgtctt	caaaaaaaaa	agaaggaaag	aaagaaggaa	1260
ggaaggaaaag	aaaagaaata	aagaaagaga	aagaagagaa	agagaaagaa	agagagaaaa	1320
agaagaaaga	agaaaaagaa	agaaagaaaa	gagagaaaga	aagaaagaaa	gaaagaaaga	1380
aagaaagaaa	gaaggaaaga	aagaaagaaa	gaaagaagga	aagaaagaaa	ggaaagaaaag	1440
aaagaagaaa	gaaaagacca	agtacagtga	ctcacacctg	taatcccagc	actttgggag	1500
gccaaagtgg	gaggattgct	tgaggccagg	gattcgagac	cagcctgggc	atcacagtga	1560
gaccccatca	ctacaaaaaa	taaaaaaaaa	aaggagtggg	gtatggtagc	atgcacccat	1620
agtcccagct	actcaggagg	agtggggagg	atcccttgaa	ctaggagagat	cgagactgca	1680
gtgagccat						1689

<210> 26
 <211> 2530
 <212> DNA
 <213> Homo sapiens

<400> 26	
agaatgtgat	tgccgttctg
aaaacaccca	gaggccgcag
tgtgcccggc	agagagcaag
60	
gacccctgac	caccggctgg
gttggctcctg	ggagggcccc
ggtgatacct	ggggggtgta
120	
caccatggag	cagagcctcc
tccagtgtag	cctgggagcc
tctgtgaggc	cacagcccc
180	
aggaagagca	cagtgtctga
ttcccagggtg	ctgccggctg
cgccccctcc	agctgcgtgt
240	
cctcacctgc	cggccccagc
tgtcgttgcc	cacgccctgc
ctgcctctcc	tgacaggaac
300	
ttcccaagca	gaggcctcag
gtagcaggcg	ctccttgctc
cctctgccac	ctgggctgct
360	
gaggggtgtat	caccaggagt
gagctcagga	cctggacacc
caagcccagg	tgagcagctg
420	

US33026.ST25.txt

acacaccaat	ggccattccc	gtcccggggcc	ctgggttcacc	cagccaggcc	tctgtgccac	480
ttttccacgg	gacattcagc	ttccccctttc	ctctcctctc	tgagaccac	tgaactttcg	540
ttctgaggca	caatggggcg	ttcccgtcag	gctctgcccc	cctagacaga	ggtgagacca	600
gctacggcac	agctcttggc	agctgggtgc	ccctctgaga	tgggccaggc	agcacgctca	660
tggcaccttc	atgtggcttc	aattctcttg	ccattgcatt	cctaaccaa	atataaactg	720
caggatcggt	ttggattttg	cattacccaa	accatttgct	tttgataata	acagtgtctt	780
ggcagagttc	ttgctcttgg	actccgtgtg	gtgatgggtg	ccgcccgtgc	acggaacacc	840
atggcatggg	catccgcctc	tgtgcttgtt	aactgaggag	gaggtgcagt	cgctgcccgg	900
aaggcacagg	cagtggccag	ggacagcagt	gagaccacac	cgttgtgaaa	ctcatgctca	960
taacaactcg	cgtgcacctc	tcctttttggc	tgtgcaagtc	tttgcattga	acagttgatt	1020
taacgtgggc	ccagggcagc	aggggccccat	aaagcaagcc	tcttgggtgg	ggggaggcag	1080
tggcatgtca	ttgggactcc	cctgtcctgt	tgcccttctg	tgggtgattt	gggggccagt	1140
ggcccgttaa	gggcaggaca	caccttgcca	agggagcggg	cgtgggcgga	agggcattgt	1200
gctgcagttt	agggcattgt	agcttggcct	ccagagatga	gctcatcctc	cctgggcctt	1260
gctgagcgtc	tgaggcttct	tcaccgaggc	tcacctgagt	gacttcagcg	ccgggggttt	1320
accaaggaaa	aacgttcccc	tccagtttga	aaaaaaaaaa	aaaaatgact	gcagccaacc	1380
ctcaggccct	tcctgtgaag	gtgctgtggg	ccacaccacg	tgggcttggc	tgtgggcaact	1440
gggccgggctt	ctggtgctca	ccagctgatg	cgtcggggagg	tgtcgggggc	agtgagttcc	1500
cactggcgct	ttgtgacagg	ctcctcctct	tcgtggcctc	ggaaaaaata	tatgaaatgg	1560
gaaactgtca	gtggtgggta	gtgctctccc	tgggctctgg	cggtgccttc	tctgtctccc	1620
tgcaggctgc	caccgcacca	gtgagttctt	ctgcctgtct	cctgctcttc	cttcctcact	1680
ccctccccag	aagaggagct	actggcttga	caccttcaca	ctgttttggg	tggacctgct	1740
cctacacatg	ggaggaagtg	atggggcagg	gcaaaggagg	ggaccttgcc	atgctgtcgg	1800
catgtgtcca	tctgcccaga	ttcgtggacg	tctgttttct	gcctcatgtg	ttctgtaaag	1860
acacttgtgc	catgtgaagg	tggcactcct	tcaaactctg	tgagctccac	cctcccatcc	1920
tggcaggaac	catctggggg	gagagtcggc	gttgctaggg	agactggggg	ctgggacatg	1980
gtttttaccaa	agtgccatgg	tcggaggcct	tcctaaagca	aaaatgatca	gaaagccagg	2040
ctggacactg	gaaatgcgct	tgaggggaaga	tggctgcaag	ctgggattct	ccagggatgc	2100
tcctctctat	gggttctcag	catgcaggca	cagaaggctg	gaggattctc	cctttcttga	2160
gaggagacac	tgttggaagg	gcagggtcag	ccaggagcag	gagtcggtgg	tgaaggagtg	2220
gggttcccct	cagcccagca	gcagcggaca	ctgagctcgg	aggaatctgg	ctggaaggcc	2280
caagtttaca	aagcctggac	cagaggcatc	tccttgagga	gtcagacctg	ttctcctctt	2340

US33026.ST25.txt

agagtgcagc actgaaccta ctgggagcgg gtggttgaga tttttataga gatcactgca	2400
gcttttccaa tgatatctcc actgggacag acatggggat gcaatccagg tctccccatc	2460
tcacgtgtgc tgggtgggtc ttaggagcaa accacagctg tatctgcaag aatcaagcac	2520
agaaaagaaa	2530

<210> 27
 <211> 2094
 <212> DNA
 <213> Homo sapiens

<400> 27 tacctgccct gccacctctg ttctccctgc ccagctcctg ccacctttac tgcacaggct	60
gggcacctgg ctgtcccagg ctcacctctc ctggatttgc caccaaaggg cagccaaggc	120
acctggtggc tgggtccagag tcggggaagg actctgattg gctgagccag ggttaagtcc	180
caggggaagga ctctgattgg gtggtcccga gttaagtccc aggggaataac tctgattggc	240
tgatccaggg ttagtttcca gggcaaggcc aattagtggg tcttgaagaa caaaggacta	300
gagtcctcct tagaactcaa cactgagagt cgaggactct aattggctca acttgggtag	360
ggaagaacgt agccaatcaa tagtggccaa gggctttgaa tcctgcctct cctacttggg	420
ggacctgaga gccatcagcc aagcatagga gtctgcttcc cctgctctcc cctttgctct	480
tcaggaggag aagggtggagg agggccccag cgaggagatt ttcacatgg agcccttgcc	540
tcattgtacac cgggagtctc gtgcccgcgg ttccagctat gctttctccc accgtgaggg	600
atatgcaaac ctcatcactc agggcacaat tctgcggagg ggaccagggg tcagcagtga	660
catagcatct gaatccctag acccatctga tgaagaggca gcttcgagcc caaaagagtc	720
acagtgcacac cttaggaaga tgtccttcct ggggaagaag aagcaccagc cacaggggca	780
ggtgtcctcc caggaagtac agtccccccc tacacctagc tcattcattt ctatggatag	840
acaatccgct cttcatccag aaaaccaacc tgccctcccc aaatatgtgc tcaccagcag	900
caacaggcta tctgagtctt tccaagagca attgccaagg gcacaggaga ggtcattgtc	960
acccaagcag aggccacctt ctctgagaa gttgctgttg accaaggaga ggtcacattc	1020
ttttcaggag aaatcactgt tgcacagaga aagccagctg tcgtcatttg agagccagcc	1080
acagcctctg gggagccagt cttttctttc aggccagctg acgttggaga gccagccaga	1140
ctcctcggag gagaagtcag cttttttgaa gccctccaca ccgttccgga agagctggca	1200
aaaggagcct cacaccccca aggaggggac ggtgccactt ccagacaaga cccacaaatc	1260
tcagggtggag actctgccac caagtctgga agaactgtcc acgtccacga gcgagcagcc	1320
tatggagggtg gagctgtggc ccgcggagaa gcagtcacat tcattccatgg agtggctgct	1380
ggtgcccggg gaggagcagc tttccttgcc cccagaggag cagtcattgc cctctgcgga	1440

US33026.ST25.txt

ggggaccagg	gttcagcagt	gacgtagcat	ctgaatccct	agacccatct	gatgaagagg	1500
catcttcgag	cccaaaggag	tcacgctggc	atatcaggaa	gatgtccttc	ctgggaagaa	1560
gaagctccag	ccagttctgc	tgcaagtcaa	ccagcatgca	gggggccttc	ctctaaagac	1620
aaggactcca	catgcttttc	tttttcta	aaaccagggt	ccatctgacc	ccagcgctaa	1680
ttcaggctcc	ctctttccct	acactttttt	tgtgatggaa	tattccttcc	cggtttttaa	1740
aatcaaaaaca	ctgacctcta	gtgggtccagc	cgggtatttg	cagggaaaac	tttccttctt	1800
catgctgggg	taagataatg	tgggtaaagc	ttcattgctc	tcaaaagttg	cttattaaaa	1860
gctgtggctc	ccccgctgcc	tgacagctgg	cccctcccaa	gaaagtttat	aaattccagt	1920
tcttgtagca	tctagcttct	tcctctatcg	ggaagccctg	gtttctccca	ttcaaataca	1980
ccttcattca	ctggggcctc	cgttcacttt	agactccaga	aagcaatgag	cagtgatgtc	2040
acagaagcag	gtcctgacaa	ggtgtgcata	ttggggcctg	gttgactcaa	aggc	2094

<210> 28
 <211> 4137
 <212> DNA
 <213> Homo sapiens

<400> 28						
gggagacgag	aaggacaca	cacacgcaca	caaggcttca	gggacacgag	aaggacaca	60
cacacacgca	cacaaggctt	caggagacg	agaagggaca	cacacacaca	cacacaaggc	120
ttcaggggaga	cgagaaggga	cacacacaca	cacgcacaca	aggcttcagg	gagacgagaa	180
gggacacaca	cgacacaaag	gcttcaggga	cacgagaagg	gacacacaca	cacacgcaca	240
caaggcttca	gggagacgag	aagagacaca	cacacgcaca	caaggcttca	gggagacgag	300
aaggacaca	cacacacacg	cacacaaggc	ttcaggggaga	cgagaaggga	cacacacaca	360
cacgcacaca	aggcttcagg	gacacgagaa	gggacacaca	gcaagtgtgt	tccatgtggc	420
acctggcaca	gagctgggag	cacacctggc	aacacctcca	acatctccac	ccgggaggct	480
catcccacag	agagcttgag	gctgtggcca	ctgctggtga	tggcggaaaa	gacccctca	540
cctggacatg	ctctgggcca	actaaccac	cggcaccag	aacgaggatg	ccccatgctc	600
accgctgcga	gaacaacgtg	gggtcctgcc	tgggggcgag	accgagacaa	cctccctgca	660
gggcaaacct	caaacgcacg	ccacgaggga	gctcttctgt	gaagggccag	ggtgaaatac	720
gacttggtc	aggctgacca	acgtgtgctg	gctacacacg	gcccctcgcg	gctgggccag	780
gacctgccc	gagctccaga	aacacggccg	ggagttacaa	aaacgcggcc	ctgagctata	840
gaaacacggc	ccggagctgc	agaaacacgg	cccggagcta	tagaaacacg	gccgggagct	900
gcagaaacac	agccgggagc	tatagaaaca	cagcccggag	ctatagaaac	agcccagagt	960
ccagaaacac	agcccgaagc	tccagaaaca	cagcccagag	ctatagaaac	acggcccgga	1020

US33026.ST25.txt

gctataggaa	catggcccgg	agctgtagaa	acacagccccg	gagctacaga	aacacggagt	1080
ccatagaaac	acggcccaga	gtccagaaac	acagcctgga	gctgtagaaa	cacggccagg	1140
agtccagaaa	cacggccac	aactccagaa	acacggccccg	gagctacaga	aacttgacag	1200
gggctccaag	tgtagcctgg	gagcaccaca	ctccagccac	acctcgcccc	gctgtctcca	1260
atcaaaacac	cacgtggtgc	tggagtctga	caaggacagt	ccatcgctgc	tgcgcacggc	1320
accgcacagt	cacctgagca	atgtcctgag	ccgtacaacc	agccccgggc	aggtgcctcc	1380
tcacccaagc	ccttcagtgg	acgacatcgg	gccccaaatg	gagcacggtc	ccaggacacg	1440
aggcagaagc	aaggctcggc	aacaaggcca	cagccccactg	gtcctgaagg	gactcagtgc	1500
ccaaccgggg	cgtggacaga	ggcggagaag	ccactggtca	gagccatggg	aaggttttca	1560
gccagagatg	tctgactgcc	aagaggctgg	cttggaggtt	accactcaag	aagccacagg	1620
gcagagggca	ctgctgcaga	catgcagaga	cccacagagg	acgtggggaa	ggtctaagga	1680
agggcagaag	gccccggcac	ttggcagcac	ctgcctgtca	tgagggtttg	tccgggttg	1740
caggacctgg	gtccctggag	gagggaaacca	ggagaccccct	ggtctccagg	tgtcaggggt	1800
tctgctgtgg	ggccaatgct	ggacactgag	ccagcaggct	ctgctcagag	gacacagact	1860
tgaagatgag	gtgcccagg	ccctgggggtg	gaatgtgagg	cagaaacaac	tactagaatt	1920
cagcttttgc	cacattcttt	cccaaagcca	gagccttggt	cttgtgggga	caggaaagg	1980
gcccacagca	gtcagtagca	aaaaatgcag	aagacagcaa	tgggcacacg	gtgaggaggc	2040
ggacacagga	cacggggctc	caggcctcca	gtcggccgtg	tgctgtgtgc	ctgcggaccc	2100
tgagcccctc	cccagatcga	gaagcccccg	gtggagcctg	gcagtggagt	ccgcaccttg	2160
ttggcctgga	tcaggtgaaa	gttctttcca	tgcacacgga	agccgtgctc	aaagttcctg	2220
cactcctctt	cactccaagc	acagagccca	tctgcaaaca	cggccgggga	gaacggtcag	2280
tggtgcccag	ggcggggccg	cagcggaagg	aaggcccagg	ccggggagaa	cagtcagcgg	2340
cgcccagggc	ggggccgcag	cggaagggaag	gcccaggccg	gggagaacgg	tcagcggcgc	2400
ccagggcggg	gccgcagcgg	aaggaaggcc	caggccgggg	agaacgggtca	gcagtgccca	2460
gggcggggcc	gcagcggaag	gaaggcccag	accgtgctc	acctcggatc	accttcacgt	2520
tgaaccgcag	ccttcgcagg	gcctcctcca	cattgaagtt	gcatttcacc	aactcgtaca	2580
gcgcctgggg	agaggacatg	ttggctcttc	catgggtca	gcgcaggagc	cgacagcaag	2640
aactgtctat	accatccagc	gagtggcatc	aggggccgtc	cacaccaccc	tcctgggcga	2700
tgtcagagcc	acctacacct	ctatccagg	agtgacatca	ggggccgtcc	acaccaccct	2760
cctgggcgat	gtcaggggcca	cctacacctc	tatccaggga	gtgacatcag	gggccgtcca	2820
caccaccctc	ctgggcgatg	tcaggggccac	ctacacctct	atccaggggag	tgacatcagg	2880

US33026.ST25.txt

ggccgtccac accaccctcc tgggcgatgt cagagccacc tacacctcta tccagggaact 2940
 ggcacacagg ggcgtccaca ccaccctcct gggcgatgtc agggccacct acacctctat 3000
 ccagggaagt acatcagggg ccgtccacac caccctcctg ggcgatgtca gggccaccta 3060
 cacctctatc cagggaagtga catcaggggc cgtccacacc accctcctgg gcgatgtcag 3120
 ggccacctac acctctatcc agggagtgac atcagggggc gtccacacca ccctcctggg 3180
 caatgtcagg gccacctaca cctctatcca gggagtgaca tcagggggccg tccacaccac 3240
 cctcctgggc gatgtcaggg ccacctacac ctctatccag ggagtgacat cagggggcct 3300
 ccacaccacc ctctcctgggc atgtcagggc cacctacacc tctatccagg gagtgcacatc 3360
 agggggccgtc cacaccaccc tcctgggcga tgtcagggcc acctacacct ctatccaggg 3420
 actggcatca ggggccgtcc acaccacct cctgggcgat gtcagagcca cctacacctc 3480
 tatccaggga ctggcatcag gggccgtcca caccatcctc ctgggcgatg tcagggccac 3540
 ctacacctct atccaggga tgacatcagg ggtgtctaca tccccttgca ggatacccgg 3600
 aggcgtctac acctcctccc tgatacgtgg ttttaattgg ccccccttct gacctgagta 3660
 gctgttccag tgccctggcc cccacacacc tgacccctgc cctccccctc gccctccctg 3720
 gcccttgagg gactgggggt gtgagctctg gccacgcca cggcagccct cagccccctc 3780
 gtccccggca tggcagcccc cacctgtctc ctgtctttca cggcttctcc ctctgggagc 3840
 tgaggccccg ccatctcgtg ccaacgccgc ttcaccgccc tgtacaggaa ctctccacc 3900
 tccctctcag ggaggacgt ggggtcccag agcagctggt cttcgttctc gtagactgca 3960
 caagcagagg gcaaaggcca gcttgacagg acccaatctg caccacaca cgccaggaca 4020
 agcaaagcag ccaactcagc ccctgacagg gaggaggcac tgtccgtcct ccctttccca 4080
 agccctgggc cgccatccct gtgctcctcc tgggcttggt gctgctgtgc tcaattc 4137

<210> 29
 <211> 2400
 <212> DNA
 <213> Homo sapiens

<400> 29
 ttgcctcct ctccccaggc cctacttact cttctcacag tgccggttca agtgcaggtt 60
 gctgagggtc gcttggaact gaggtccac catgatctcc tgcaaagcaa gcacctggga 120
 atcaggacac tgaggagcat ctaggccggg cgggaggctg gctgcagcgt gctgtggcag 180
 gcttacgggg agggggccact gtccagaccc cagacccatc tgtgccgtct acctgctgat 240
 gccagttct ggggtctgaa ggtgggaggc agaggcctgg gtgtgtgagg ggtgaggctg 300
 tgtcctgacg cctggcctgg cagaggccca gacaggatgt cggaggacaa aactctggg 360
 tcagcagcag gggcccaggc tccgggtcaa agcacctgtg gccgggtcca gccaccctg 420

US33026.ST25.txt

gggtcgagca	gcacgtccct	cctctgagaa	ggggcacaaa	cccagggaga	gggctcagca	480
ggacccggct	gcggttactg	aggccgagat	accaggttgg	ggagagggca	gagccatggg	540
agggatgcca	ggttggggac	acggcagaac	cacggctggg	atgccaggtt	ggagacacag	600
cagagccacg	gtcgggatgc	caggttgggg	acacagcaga	gccacggttg	ggatgccagt	660
ttggggagac	ggcagaacca	cagtccggat	gccaggttgg	ggacacggca	gagccacggc	720
cgggatgcca	ggttggggac	acggcagagc	cacggccggg	atgccaggtt	ggggacacgg	780
cagagccacg	gccgggatgc	caggctgggg	agacggcaga	gccacggtcg	ggatgccagg	840
ttggggagac	ggcagaacca	cggccgggat	gccaggttgg	ggagatggca	gaaccacgta	900
ccttcttaca	tttgttggca	ggaagagagt	cctcctcggg	gtcggaggag	gcagaagagc	960
caggctctct	gtcttcatca	gccaggaaac	gagctttggg	aaaacagagg	caggtcccc	1020
agggcttcca	ctgcctgcag	cctatacaac	cccttctctc	cactcccatt	ctccatccac	1080
ctgatcccca	ggccataacc	ctctctcttg	ccagacattg	ggtaaacaga	tgggcacagg	1140
acccaggacc	agggatgcac	ctttgaagaa	agaggccttc	ccttctatgc	agctgctgca	1200
cctctgggcc	ccgagccctc	agttcccagg	aaagccagca	cagaggcttg	tgaaggaggc	1260
cggttctggg	aatgctgtcc	ctggatctgc	taggggaacc	aacatgttcc	ctacttgttt	1320
aaaccaaadc	gctctgagag	tccaggctca	ctggccagcg	tggaggagaa	caaagcacc	1380
ccagggttac	tgacgcttcc	cgccaggcag	acgccctcat	ctgtgatgag	ttcttggcct	1440
gcatcagccc	aaggaccctt	catcaagcat	cacgactgcc	tggcaggggg	cctggctgcg	1500
gtggagtatg	gggacagagt	cacctacatc	cactccgggt	agggaaagagg	tcggaggcct	1560
cgtgggaggt	cacggacggg	gtgaggtcgt	cagcagatga	ttgcgtctct	tcctcttctt	1620
cccctgaaag	caaatccttc	gctatttggt	cctttaaaaa	aaaaaaaaaa	agtaaagaac	1680
attttacagt	ttaacaatct	cgcaatacca	ctaataataa	caacagtaaa	gacactggga	1740
gtgccctgag	gtcacatgg	ggctgctatt	cccattctgc	aaaggggtgca	cagcgtgggg	1800
ggagcgggga	tgggaaggag	acacgtggga	gccacacccc	agccaccaga	gctggagaca	1860
gttagagctg	ccactgggca	cacgcccggg	gtgcatggct	ctttctctga	ctgtgcattt	1920
ggttttaacc	ttctacaatg	cagcccgcgc	ctgctcccaa	cacccaagcc	ttgacctgtg	1980
acctctgggt	acggaatggc	agagagacca	gtcctgggga	ggccccgatg	tgccccctca	2040
cccaccaaag	ccagaatgac	atgtggcctg	gggttaaggc	taggggtccag	ccccatgccc	2100
atggccattc	caaccccagg	gtagtgggtca	caggtacatt	ctacttattc	tgggggcctt	2160
tgtgcctcct	ctactgaac	actcccctct	gcagagaggc	agcgccaggc	ccccccacct	2220
tcagctgtga	gccagttcca	ggaagggccc	tcacttactt	tgtccagggt	catgtctggg	2280
aggttcgggg	ccacgtcacc	accctcactc	tcccgggtctg	aaatgggggtc	tgacgcctcg	2340

US33026.ST25.txt

tagccataga gcgcaagcag ctcatcaaag ggcattgtcgt tgctctgagt tggggaaggg 2400

<210> 30
 <211> 1815
 <212> DNA
 <213> Homo sapiens

<400> 30
 gggagaaggg gagtttgctg gggagacgag gcgtgtggga gaagttccag gcaggtggag 60
 ggatgccggg gcgtttgtcc cgagggtctg gggttgcagg agatggctgg accccgggtca 120
 aggtggccag cagatgtgtc acgtggtgtc gagtgcgggg ctaggtcggc ttggtggaag 180
 ggcaggggac gggggagtgg gctggtgtga cccttcctgt ggccccctca cgtcagagca 240
 tccccgacat ctccacgctg ccctggttct cgctcagtac ccctatggc tgcctcctct 300
 tcatccgtgc caccgggac ctggtggacg acatggtgag tgctgttgga tgcagctgcc 360
 tgggggaggg agcggggccg gtcggggggg tctcttgatc cctgggagag agtgggagga 420
 gggctgggct tcctggagca ttaggggaac gtgggcctgg gagcctcagc tgctggggct 480
 acattgtcct tatctgctag caccacatt gggcaggtgc cgaggtggc gttggctctg 540
 tcggtgcgtg gttttggggc cattgagctt tggtgggggg tggtctggca ggcactctag 600
 gtggtgggca gcacgcctgt cttctccccg ccaatagcag tgggtccagt ggccccacg 660
 tccgggatcc ctgagcagac gcaacgtggc gtggggccag cggacaggga ccccggtgtg 720
 cgggcgggca ctgctgggct gcagtgcggc agcggcctgg gcgggggag gagaggctgg 780
 acggtctctc tgatcctttc cctcctggcc caggggagac acaagagtga cagagccatc 840
 aacaacagac cctgccagat tctgatgggg aagaggtgag gctggggctg cagctgggga 900
 tccgcgggga cacgggggct ccagcccagc agggatcatcg gcctcggcaa gtgtccatca 960
 ccttccgtgc tccctgatct cccggctggg tgagtccgac aggaaccggg cctgcattca 1020
 ttaggcgttt ggccgggacg aggacagagg ccgaggccct gatggcgaac cttgcagag 1080
 cttagggctc gggcgatggg gaggacaagg aaagtctgaa gaggacgtgg gtgcaggacc 1140
 ctggaggtca ctgggtggga gcgtggaccc gcggggagtg ggggtgggagc ccggggaagg 1200
 cttcctgagg gggcaaaggc ccggaggtgg ggactgcagc tcggggcccc ccgtcatccc 1260
 gtgcctctgg tctcccgggt tggggagggg ttgcagaggg aggggcctcc ttcacaacct 1320
 cctctccccg cagcttcaag cagaagaaat ggcagatct gtgcgtgggg gatgtggtct 1380
 gtctccgcaa ggacaacatc gtcccagtga gctgggggtg accccgaggt ccagaacca 1440
 cgcgccccct caccgagagc acccctccca ggggtggggag ggctgccgca cccccaattt 1500
 gtcttgcatt ccctcttgca acgtgcccc cactccaca ccaggccgac atgctcttgc 1560
 tggccagcac ggagcccagc agcctgtgct atgtggagac ggtggacatt gacgggtgag 1620

US33026.ST25.txt

gagctgtggc atcgctgggg accctggggg gtggggagca tggcccggag gagccccctt	1680
ccccagtcac caaggaggcg gccagccaag gtcgctcaga gactttgggtc actcacccca	1740
tgagtgtctg gggcgtgggt gctgccaggc actgagggga ggaagacgcc caccctcccc	1800
attgtttcca ttgtg	1815

<210> 31
 <211> 2721
 <212> DNA
 <213> Homo sapiens

<400> 31	
gatggagaca ctctccctgg gaaatgcccg aagtcccttc tctcctaggg gtttcttcag	60
aggccacctg ttaggcctgg aagctcagct tgaggcctct tctacctgga tcgcttggtt	120
cccaagtgtg ggtagcaagg tcttttcctc tcccggctcc tctaacaact ccactgggga	180
gcttcagcag caacattgct ggttgagatg tgtttcgagg ctaagaagtc cttccaggct	240
ccctccacag ccccatggca cagtcagaaa gtgaggcagg gtgggtaggc tgcacttccc	300
agtgtcctca cctccagcca gcaccatctc tagctgtggc tcctcacagc tgccgccttc	360
ctgcccctgg acttgccaca gcttgctcct caggattatt tttcccaacc cagcaaagcc	420
ccagatgatg ggactcaggc agcaaggagg gctgaccccc aatcaggagg ttcattcctc	480
gataaagtca ctcaggctcc tgtgatgctg ccaaacctgc cctctgagca ggatggtgta	540
gtagaggggg atgagtgtg gcagcagcac tggtcagggt atctgaagga gaacctctgc	600
acttaacaaa cacacacctt gagatcattc tcagcaggag gggcagatga ggcgtaggta	660
acctgctgac tcttccgggt aataggttaag aatgtgaacc agacagggca ggggaaggggt	720
ggaaagacgc ctacagtgat gggccacatc cgcaggagga gtgggggctg ctggaccggt	780
cacagaagga actgtactgg gatgcatgac tggagaagta cggcacagtg gtctccctgg	840
gtgaggacca gccagcccca ccccgcccct ctccctgggg cctgcacca ccctgcagca	900
ggcctagctg ggcagggcct ctgtgctacc agccctaccc agctctccca ccttcagag	960
gaacaccctg tcacctacca gaaccgacct caccctcct tcatgcaaac cccatgccta	1020
actgtgcccc ccaccgggc aggggttacg cccaccagc cagaggcaca ggcccagtca	1080
gagctgggga tgctgtcac ggggacaggc gtctgcagaa gcctgcgctc gggtgagtgc	1140
cccacaccat ccagcctgaa tcaccctcc tgtatcggtg ggacctgagc caccactca	1200
tggggggacg ggagcttgtg ccacggccac aagcctgagg gaggggttgc tgagtgccgg	1260
gactcacctg gtttgcccct gccccagga aatgagagtg agggccacc tggctgcca	1320
gagggccagc cgccccaggg cccagggccg gcagcctggg agggcttgtc tggggctgcc	1380
actcctgccc ccactgtgcg cccagggaca ccgccagtgc ccactcagcc cacacctgca	1440

US33026.ST25.txt

gagacgagac	tggagccggc	tgccaccccc	aggaagccct	acacgtgcga	gcagtgtggc	1500
cgcggttcg	actggaagtc	agtgttcgtc	atccaccacc	ggacacacac	gagtgggcca	1560
ggtgtgcagt	ccccggggct	agccaccggg	gaaagcacag	agaagccacc	acaaggggag	1620
gtggcctttc	cgcaccaccc	ccgacgtca	ctcacaggcc	cccggagtta	cccgtgtgag	1680
gagtgcgggt	gcagcttcag	ctggaagtcg	cagctgggtca	tccaccgcaa	gagccacaca	1740
ggccagcggc	gtcacttctg	cagtgactgt	ggccgcgcct	tcgactggaa	gtcgcagctg	1800
gtcatccacc	gcaagggcca	ccggccggag	gttccatgag	cagccagaca	gcacagtccc	1860
tcggggcctc	ggtgttctcg	gggcctggat	acagcctctg	gggcaccagc	agaagactct	1920
ggaggcagca	ggggatgcca	gagtgaacaa	ggggtcccaa	gccagttccc	tgcccctggt	1980
ctggctctccc	caaaaagacc	tgggtgcaag	gaaaaggagc	tgctctctct	cttcttgccc	2040
ctgcctccta	gagggaggtc	tgggttcctt	tctatggctg	accagtgcct	gtgggggtgac	2100
tgccaagcac	caggctccct	ccctccctgt	gacatggcct	gggctgacaa	cactccctct	2160
cctgggacct	ccttgctca	ggtgggtggt	caaaaactgt	gccttcccac	tcgtctgtgc	2220
agaggctggg	cctgaggtct	cagtgtggag	agcagcagaa	gacccaggaa	agcacagttg	2280
gcttccgttt	ctcctgtctc	ctgtgtgtgt	tagaatttta	acataaattc	cactttcata	2340
atatggagtt	tctgaataag	aatcctgatt	tctggcttct	gctggtcggg	aaataggcag	2400
tttgctgtct	ctgcccagta	gctgcagcac	agggcagttg	agcccagaac	ggccaaacct	2460
ctgttgccac	agaaccagag	tcccagggtc	ccagcctccc	ttgctccttg	ccgcccacat	2520
cactcaccag	cctcactggc	cttggaactc	atcagtcccc	gcttgagaga	cacaaagggg	2580
atttcctttc	gaagtacggc	tggacaaggg	ggacctctga	gaagaggggc	tgcaagcagg	2640
ggttgcgcca	aggccatggg	tacttctagg	tcaggccgca	ccctccatag	ttagctggtc	2700
atgcagcagg	aaggcaaaag	g				2721

<210> 32
 <211> 2399
 <212> DNA
 <213> Homo sapiens

<400> 32						
ctctgctcca	cctctggctt	tgacgacgat	ggagtcctgg	ggttcaggag	actgaagtca	60
gcccattgatg	cacacagttg	gatcatgaaa	gccctggcct	ctcaccttga	ggaagcagtc	120
tcagaagggtg	aaccagagg	agctgccatt	ggcctaggag	cctggcaggt	caggctgggg	180
tatggcctgg	ggccataccc	cactccacca	gctccaaatc	cttatggcag	ggcacctagg	240
ctaggagcca	ctattgtgct	gaagaggaga	ggggcaaaga	gtggctgctc	tctccgctgg	300
atgcaggggc	ctgggacact	ggctggccag	taggggtggt	gtccccaacc	gccagcagtc	360

US33026.ST25.txt

cagccccagg	atccccacccc	tcactgtttc	ctgcccccaa	cacggccatc	ggagccctcc	420
ctgaactttg	cccccagcac	caagggcaga	tatatggggg	cttatatacc	ctcagtgcaa	480
cctggcccca	aagatcccc	tgggctcccc	acaagtaagg	tgctcagcca	tgtccatcaa	540
ggtcggggag	gggaagtctt	aagtccaaaa	gacccttaga	gcctgactgg	aagatctatg	600
ggagggggcct	taaaggctgt	ggacagcagc	aaccaggagt	atgatggggc	tttcacgtgg	660
cctccctctc	ggagaccac	ctcagatgtg	gcctgcctat	cctactcccc	acaggactga	720
gggatccaag	agaaccaagt	gctggttata	tatgcagccc	accttagccc	ctacagaata	780
gaggtcctag	atggcaaagt	ggaccatcct	gttcctgccc	aggacagcct	gtggggccgca	840
tgatgccac	ccaagaacag	ggacgctgaa	ccctgacact	cacatcttgt	ctatgagggc	900
aaggcacgca	ctgatccagg	tgctcacagc	ttcgtggttt	aggcccatg	gcctacagtc	960
ctttattaga	gcgagagtcc	cgaggccccag	ccccatata	tgatgggtcc	acttgagtct	1020
ccttaggcgc	cccatgaggg	agtaacagct	tgggtagaga	gctagggacc	ttgcccagcc	1080
tgaccctggg	gcaggcaagc	ggccccccag	ccccaccac	caccccagga	gagggcgggg	1140
tgagaaccgg	agtcaaactt	tgggccgggt	ccaagcgcct	gagcgcccgg	tttacgcagg	1200
aaatagtcca	gttctcagaa	gtggtctaac	cagccccagc	cccagcccgg	caccacctgg	1260
agggttcaag	tacatggagg	agaggagtaa	ggcggactta	ggccctggta	tggagaaagg	1320
gtgaagggag	agagaggacc	tgcgctcagg	agggagcgtg	gtctagtggc	gggaaccacg	1380
ggccccgcag	cgggcgtggc	cgactgtgcg	ggaggccccg	gatccaccgt	gggcgaggcc	1440
aggccccagc	gccatcaggg	cgcagggtgc	gccgccagg	ggcgctccag	cagcgcgcg	1500
tgcgagaaga	ccttgccgca	ggcggggcag	ggcgcgcgct	cgggccggtg	agtgcgcatg	1560
tgcacgttga	gcgagctctt	ctgcgtgaag	cgcttggcgc	agacggcgca	ctggaaggcg	1620
cgcacgccgg	tgtgcgtgac	catgtgtttg	agcaggtagt	cgcgtagaga	gaaggatcgc	1680
cagcacacgg	cgcactgggtg	cggcttctcc	cctgcggaag	acagggcggg	ccgcgaacgc	1740
aagtcagact	ctacagctcc	ccgccccac	cccacccac	ccccacctgg	gctcctggac	1800
ctagcagggg	ctcccctccc	ctcccgaacc	accaccccgg	gatcccttgc	ctatcagaga	1860
accctcccct	cactatggga	tcttctgcc	cagcagggac	acccctcct	ctccaggacc	1920
tcccttcacg	ttgggacttt	cctgcccac	agggatcctc	atacactgtg	aggtaccct	1980
ctcccatccc	ttcctggcag	ggaccccctt	tctgttatcc	tgggatatca	ctgtgacagg	2040
gcacccctaa	atccagcaag	cacctgtctg	caaggaaccc	agcctgtctg	gaacatctgt	2100
tggccatctg	gactgcccac	tgggatctcc	ctctaccctc	aggtaccctc	cccctcaacc	2160
cctaccaccc	cggcacaggg	agacactggg	tcctggcccc	cctcgcctat	gcccatagag	2220

US33026.ST25.txt

tcccctaaac	tcagtctgac	aaggccagtg	ccctttcata	aggagggacc	tgggcacatc	2280
tgccaccttc	ctgcaggaag	ccccagttgc	ccagaacccc	tgcccgctgg	ccactataat	2340
gtccttggtg	tgatagagag	agctcctcat	tctgggtag	gggaggggag	gcagtctga	2399

<210> 33
 <211> 2533
 <212> DNA
 <213> Homo sapiens

<400> 33		
ggcagcagcc	aggcatggtg	aggagacagt cctggaccca ggtgaccaca gaacccggcg 60
gggcgagctt	cggcctcacc	tctcacaagc cccggctcca ggagcccca accccacccc 120
catccctaac	ttgccggcgc	ccggagttca tgggcctggc ctagacttcg gtcaccacag 180
ggactgaggt	tctccagatt	tcaaaagcct gtgatctgcg gttgtgttgc cccgttcccc 240
ccgcggcaga	caagcccaga	cacacacagc ccagacaccc cagaggcaaa ggaattcagc 300
aaacatttat	tgacccttgg	tcctcatcaa ggaggcagtg agagatgaac tggaagtgac 360
caggggctgc	cagccacacc	ccctccaccg agaagatgac tttcacctac tatacagcag 420
aaaaccaaaa	gccaagataa	aaatcgctgg ggatgggcag ggatggggga ccgggccaga 480
ccccagctgc	tgagcagccg	ccacctgagg tggggagggg caggaaatgt ctggagagta 540
gggagggcag	gggagggcag	aaaggacccc cacgtgaggg ggaccccac atctggggcc 600
acaggatgca	gggtggggag	ggcagaaagg cccccccgcg ggaaggggca cccacatct 660
ggggccacag	gatgcagggg	ggggagggca gaaaggaccc cccgctggag ggggcacctc 720
acgtctgggg	ccacaggatg	cagggtgggg aggacagaaa ggaccccccg ctggaggggg 780
caccccat	ctgggaccac	aggatgcagg gtggggaggg cagaaaggac cccccgctgg 840
agggggcacc	ccacgtctgg	ggccacagga tgcaggggtg ggaggacaga aaggaccccc 900
cgctggaggg	ggcaccatc	tggggccaca ggatgcaggg tggggagggc agaaaggacc 960
ccccgctgga	gggggcacct	cacatctggg gccacaggat gcagggtggg gaggacatca 1020
gactctgccc	caggttccag	gaatccgaac cccggagtgc tgacgcggtt ccccaacttc 1080
cgccttaaga	aaacaggacc	agccggcacc aggccgtct ctcacgtact ttaacacatc 1140
cttgaaagcc	cctcgtttaa	tgagaaaagc gaacactgcg gtccttgcca aagtaaaatg 1200
aagctgcccc	aggacaaggg	gttaccatga gctccctgga gtccgacgcg ggttttctct 1260
ctgggggacc	tgggtggtcc	ccgctgtggt ctttggtgtc ccactttggg accgggtcca 1320
gtctggggtc	tagtctcgag	catcagggtc aggctcgggg cagggctggg ttaggctccg 1380
ggtcagtctt	gccatgggtt	tgggagcagg tttgggttac ttgcgtttga aggcagcagt 1440
gggtctcagga	ggaagaaacg	ggggcgggag agagtgggtga tctgtggtca gtgggtcagt 1500

US33026.ST25.txt

gacctgcacg	gtgattctcc	cacctccaaa	aggtaggggg	gggactggag	gcgtccctag	1560
gtcaggccgt	tgagttcgag	ctccgatggg	ccaccttgaa	tccaggactg	accgcccgtg	1620
tgtgcacagt	ttgttcttgg	acgaggactc	gtgaggatcg	agggctgggg	accccgggtg	1680
gagcaggatg	gggccctgcc	ctcccgtggg	agttgtggac	tcgagcccag	gggctgcccc	1740
tcacagcggg	gtcccagggt	cctgccatcc	gattttacct	gggatgtctt	ctctggagtt	1800
tggaattgct	tgaggaaccc	tgcgtgtgct	tggagaggcc	agagggcttg	ctgagaaccc	1860
catggacagt	ggagagcggg	attcgaacca	agggctggac	tcccacacct	ctggcctgcg	1920
tcgccaggtt	ctttgtggct	ctgaagaatt	ggccgctgtg	gaaaagagca	aatgtccgag	1980
acccccaaca	ggaagagtct	aaaaatccag	tttgcaacca	cttctgacct	acaaaaaat	2040
ggaaatttag	tgtttttcag	cctaagacat	taaatttcat	atcagaacaa	agcctgcccc	2100
aggctgaccc	tccccagccg	taccgtggtg	aacgggttca	gaggatacgt	gggctgaagg	2160
ctgggcctcg	ggagggctgg	gggcttccag	agccggggca	gctgcagctc	tctctggtct	2220
cacctggaac	ttgccctgta	gatcctccct	gccctgcggc	tccaatcgac	cgtgcacggg	2280
ccgtggcatc	cgtccccag	gcgtccttcc	ctggctcttag	cttgtacagc	tccccacca	2340
cccagggtact	cggttcccg	agaccagggc	caaaccagga	ggccctcggg	agatgggggg	2400
tcaccgaatt	catttccatg	tgggaacttg	ggatacaaaa	cagccaactc	ttcctcagcc	2460
acacggatgt	ttctcctcta	gtggccccga	gaacctacca	tggagggggac	agtgtcaggg	2520
ctggacgggc	acg					2533

<210> 34
 <211> 3930
 <212> DNA
 <213> Homo sapiens

<400> 34	gcccaaggatt	gaggaccctc	cacccccacc	ccaccaggca	aggaagggct	ctaccagag	60
	tcaggagcgt	ggcctccagg	gctgcgaggg	aagacgcccc	gtccagcagc	cccaggatgc	120
	cagcccagtt	ccctgtgccc	ggcgtcttcc	ggtgcagacg	caggcagggg	ctcctgcaac	180
	cttgtggcat	cacagacgcc	cagcactgac	tgggcccaga	tctcctcccc	gcagggctca	240
	gcacacaccc	tgttcccggc	aggcctccat	cagtccagcc	tgacgaggg	ctgccccgc	300
	ggcctgggtc	acccagact	cttccaccct	ctccctggct	gactgtccca	gctcagagtc	360
	ctcagggtcta	aggggggtcac	ggccctcctg	tggccccacc	ggccccaggc	tccccagctg	420
	tggcactgtg	agaccagctg	acgttgcagg	aatggaagcc	ccagcggccc	agacggcttg	480
	gggagtcctc	gggagcaggt	ggccagagac	aggtgcgtgc	caggccctcc	gcaccagag	540
	cggggccggg	aggagagagg	aggccccctg	ttcgcgcaag	gccctgcttc	ctgggcccac	600

US33026.ST25.txt

agcagcctgt	cagaagtttc	cagctccttg	gactggctgt	gtggggcctg	ctccctggtt	660
tcaggggcct	gggaagggct	tggcgctttt	tcctggtttc	ctactctgag	gtgagctggc	720
gtctccctct	cccactgtgg	gctgagggga	aagacctctg	tgtccatccc	acaggcctgg	780
ccaatctctg	gggtcctcaa	agaggaggct	tttgaggggg	cacagcccaa	acccctgggc	840
ctccccttga	ggtctcctcc	cagccccccac	ccagaggacc	ttcccacagc	cttgggagct	900
gaaacccagg	ccaccccatc	aagttggcct	ctgtgggtgt	acacactcct	ttccctcagg	960
gccaggggtg	gtccccaccc	ccagcactca	cagccccctc	ttctctggcc	tccctgccct	1020
ccgcaccctc	cctgctagat	gctgggtgcc	ctagccctgc	cctgatggcc	acactgcacc	1080
acgctggcca	ggtcagaacc	acccgaggag	aagaaccaag	atctggcccc	accctgtcct	1140
cctcggaagg	tctctctggg	gcccaccccc	tcctccctcc	ccaaggatct	gagcctccct	1200
caccgaggtt	cccagtggag	gtagacagtg	gatgagtgat	cccaggagag	ctggctgcag	1260
ccaaggggct	gaagggaggt	ggaggcgggg	ggggcaggaa	ggaggatctg	gaaggcccca	1320
ggcgctcccc	accatccag	cctcggcctc	tgtcctggtc	gcgttgccca	gcgaggcctc	1380
tccttgggct	ggggctcggg	tactctgccc	tggtcggggc	cacagatgcc	gcaaagtccc	1440
ctcaactcag	ctagccaggg	tgcaagaccg	cgcccacagc	tgagaagcca	ggggttacga	1500
gtgtggccct	gccaggacct	cctcagctgc	atcctccaga	gtaaacacag	gtggccgcag	1560
atcttccagg	gccggccggg	caggcaggac	aggagcccag	gagggccgca	gtccagctcc	1620
cctccccgct	gacccagggc	cggaccacagc	ccggtgactg	gagcagaagg	aaaccaagc	1680
cccaggccct	ccctccggtg	gcatccgaag	gtctcagcgg	cccagcctc	cccaggggc	1740
cccgcacccg	ccaccgcca	cctcagaccg	gagagagagt	gagggatggg	cagagccagg	1800
cccaagtccc	cgccggggcg	acggtcacgg	tgccctaccc	tcaaccgcct	caccagacc	1860
ttccgacca	ggaacagctg	aactcagcct	aaaaagcacc	cgccccgagg	gcctgagtcc	1920
ggccgtggtg	cctcctgctg	cagagatgtg	ttttgcacac	tcctgtgtgg	cagggagagg	1980
cccgggcgtg	cgggctgggg	gcccaggggg	tctggagacg	cttccctgcg	gagacggggg	2040
ttgcccagcc	cccacctgtc	acgcttctcg	tcacccccaa	gtgagggccg	tgggcgcggg	2100
cgggggtggc	aggaggccct	gctgggctgg	gtcacacgca	tgacacctgg	ctgtcgcaac	2160
acagatatca	tcacgcccgg	gcacccgtga	gtcactggcc	cagagcaggg	gctgccccca	2220
gcctcccaaa	caaagaccct	ttgtccccag	gcctctgggtg	ccaggcccac	ctgtacagca	2280
gtcagatgcg	caggcggaca	gacacgccgg	tggctcggca	ggcacaggca	gggccagggc	2340
gtgttcccgc	aaccagacac	gctgccattc	ctgggtcagg	gtcaggctga	gggagacccc	2400
tgggggacag	gccctgaggt	caccatagct	cagagtgacc	tgaactggga	gtccaagcac	2460
agactggcca	agcccagccc	gtgagcgacg	gccccaggac	gcggcgccga	gctctgcccc	2520

US33026.ST25.txt

cagctccagc	tcccagcggc	gtcggagcac	agcagatccc	agggcagcgc	tctgcaggca	2580
ggaaagagct	ttcccttggg	acagcgcgct	gagcagcccc	cagctgaggg	tgggagcccc	2640
gtccctggac	cccttcacgc	agttcagga	gccccacatg	ccgaagcagc	cgtcacagct	2700
ccatgggccc	ctctgctgtc	cctggcagga	ccgaagctat	gtggcctccc	ggacgccagg	2760
gaccccgggc	acgcccgcgc	caggcactga	gtggccagcc	aagcgcctcg	gcccggggtc	2820
ctggacggct	gttctgggtt	tgttctcaag	ggggccgtgc	tgctggctct	gtagagagtc	2880
ccagtcccag	ggcagagacc	cacacagatg	tgcagacacg	tgggcacaca	cgcaccagtc	2940
gcagggacac	acaactgtca	acccggggtc	aacacggggc	acctgggtac	atagattttt	3000
acaaagcagg	gcaggcaggt	ctgtttggac	cctacacagc	ccctacatgc	ccccaggcca	3060
ttcttgttcc	aaggcccaga	tgacagtggg	caccaggtgt	ggtgtggtct	ggggtctggg	3120
acaggcccca	ggaacgccct	gggcttactc	cagagaggct	ggcaggcagt	ccgagggggc	3180
tttgagcag	acaccctccc	agctgcaggg	cggcaggggc	ggcaggggtg	acagaggcgg	3240
ggagaaggat	gcgaagacaa	gatgccaaag	ctgggcctcc	agcgcctgcc	tgtcctggct	3300
gcagccccag	ggtccacacc	caggcgcccc	caggggccag	gccagggcag	ccgcatctcc	3360
tacgtacccc	aacagtgggg	cccttgaggc	accggggacg	gatgggcaat	ggtgtccaca	3420
cctgacaggc	ggggccggag	cggggcccag	cctcctcctc	acagccagga	gccccagcc	3480
ctgcctcccc	tggtcctctg	tgccccctca	gggtggctgc	cgcacctggc	ccaagagga	3540
cttcctggct	gccctgagct	cccgtccgca	tttctgtcca	ttcaagacca	ggacagcacc	3600
agggtctggg	atactggctc	cgacccagcc	gaggcagccc	cggggcaggg	tgggtcaggc	3660
aggtccagcg	ctgggactct	agggaaaggg	tggtcctgtg	agcagacgag	ctggaggggt	3720
ggtgggggga	gtgtccccgc	accgggcatg	gccccctcca	ggatggcagg	gagcccacgg	3780
caggagtgtc	cgatgcccc	agccccggcc	aggcagcagg	gtcggcctgc	ggttctggga	3840
agtcagccct	ggtggaggtc	acggagaagc	cggcagctcc	ctgccgctca	gggcatgggg	3900
tcaagggtca	ggggtcaggg	gtcgggttga				3930

<210> 35
 <211> 3512
 <212> DNA
 <213> Homo sapiens

<400> 35						
tggtgaggcc	ccaggcgggtg	ttcagaaagg	cctggctggg	tgctgcctga	tcctgggtgc	60
ctgccccag	cccgttcttg	cccagggttg	gcccgtcagt	ttggggagga	gccactgaaa	120
actggaagca	aacaggggag	tccgcagccc	agggtcacg	ccaaccagga	aggtgcaggc	180
cacgctcctg	cctctgcctc	ctcagggccc	ccacactgct	gtccccgctg	accagctcc	240

US33026.ST25.txt

aggagggccc	ggcacaacct	tggttcccc	tgtacagatg	cacagctgcc	cgactctctg	300
gaagggagca	ctcttgagtg	ctgtggccaa	gcagggcagg	ggctgcagaa	gggagacccc	360
ccgttccaga	tccaggcccc	agggggcagg	ccgtgccccac	agaaggggtg	ctgagggcag	420
agaggagccc	ctaagccggg	gccacagcct	tggcaagtga	agcagaggcc	cctccagaca	480
gccccagccc	ctgacgccac	tctggggggc	ccagggagag	aggtggggac	gggtcaccac	540
ccaagcccac	ctcgtgccga	ttggcgctg	cccacacacc	tcgtcgcagg	gctgggctgt	600
cccgcctcac	tgcccagcaa	gccttgggga	gggccccttc	tgtgccagcc	ccggcagctc	660
caggtcccag	gggaggggta	acagccgtgg	gctctggcct	cttccaacct	ccccaacccc	720
accagcgact	aagggtctctg	gatgccaaac	agagatggca	tctccgcagc	tcagcagagg	780
cctggacgtc	ctgaggccag	tttacactct	ttggtgtggg	tttgccagag	ccaaaatggg	840
gtgggggtg	ggcccaaadc	cacaggacct	gccagggagc	agcagcatga	tggtcacata	900
tggggcccac	cccaccctcc	atggggcagt	tctggcccct	aaggcccccg	agaggccctg	960
gtcattagag	tgcgggcata	ccgagagcag	gcgaggagaa	gcctgctggt	tccagccctg	1020
ctccacctgg	gtgccccggg	cacggcacgg	tctgggcgca	cctgagcccc	caggggtgcc	1080
tttcagctcc	acacgcctgc	ggcggccagc	acatgcaagc	acgcggtccc	gtgtgtggca	1140
tgcacgtcct	cttgccctgc	acagagcccc	ccacaggacg	caggcctccc	gagggcccag	1200
aacagtgctg	ctctccaacc	tctggggctt	ccagtgtccc	acggcctgct	gtcccccaa	1260
ggctggacag	gccgtgggca	gagctgagtg	gggccggcac	ggacagtggg	ccttgtcctc	1320
agggctgacg	tggcccctgc	aggggtacc	agggcagcgc	ccagcctctt	gccatcacca	1380
taatcccggg	ccaggtaagt	cggccccgag	ggaggctcta	cggcccatac	cccaagctac	1440
cgggtcccc	tgtgaacagc	acccttctgc	ccccacccat	ctcccgccga	cctcggcagc	1500
ctggcttcca	ccccagtgga	aacatccagg	cagcactcga	aggcagtggg	gaggggtggag	1560
ggctctttat	tgtggtgacc	acgggcatca	gtaggagggg	ccccgggatc	cggcggcagc	1620
tcctcgccag	ccccctggg	cgccctcacg	tgcccaggag	cagcccggag	aagctggagc	1680
ccgcctggat	ggtgaggacg	gccccggagc	cattgtccac	aaacacagaa	gcgtactgtc	1740
cagcctgtaa	gaagcacggg	gacgtcacia	ccgcagccac	agcccagcca	ctcgggtggc	1800
aacgtctgcc	cacctgccct	gcgctaggag	gtgccgaggc	cccagaggtc	tgcgccctga	1860
gtgcaccgag	ctcacacccg	gcccagcccc	agtgcacccg	agccctcccc	ctcacacccg	1920
gcccggactc	acctgcagct	gcagcagccc	ctgcacctgt	agcgtgaaga	ccctgctgtt	1980
gctctccagg	cctgagacgg	cctccaggca	cctgaacaca	gccccacagg	gcaagagggg	2040
ggcgttgcag	gtccaggggg	ccaagacctg	ctccagtgcc	cagagacccc	tgtggcctgt	2100

US33026.ST25.txt

gagccccctcc	aaggggtggtc	cggggggctgc	cgcctggagc	gggggctgag	gtcactcacg	2160
tgtggcgctg	gcacagggac	tcaatacaga	tgagaacaca	caccacgtcc	cgggcccgca	2220
gccgggcctt	gccctgcagc	tcactgtggt	ctgcggagag	agccctgggg	aggggtggtgc	2280
atggggggcg	gggtgggggc	tggtggggag	gggcttcagg	gcacacatcc	caggacaggc	2340
ccaggagtgg	ctgctggggc	tggggagggg	gcgcctgagg	ccaggcgtgc	agcagggacc	2400
ccatgcccag	tccaaggccc	cccatggggc	aggggatagg	tccctaacag	gacccgcacc	2460
cgggggccggc	gatgccaggc	gccccagaa	agctcagccc	cagccccgtc	acagcacacg	2520
gactgcccc	atccggctca	cccacgtgca	gactggcaga	gaactggaag	atgccggaca	2580
cgggggccgt	gaaccgaccc	gaggccaggc	tcagaccgga	gcctcgcagg	aaggcacctt	2640
gggcagcagg	ctgtgagggg	cagtgggtga	gcggccagcg	cagggcctgg	ccccacccc	2700
acagaccccc	cctggggaag	gtgcctgcaa	ccgacagccc	ctcactcgga	gcagctctcc	2760
cgggaccctc	acgctcactg	tgggcaccag	caggactgac	cctcgagtcc	acaccagga	2820
gggtctccct	gcctcccggc	taccggggac	ccacgctccg	tctgggcata	aagtgtgatc	2880
tgggccccca	gggcctccca	accctgaccc	gaggcagccc	ctcgccctcc	gagccccgcc	2940
cccagcccc	aaccacatg	ctgccccatg	agtgtcaggc	ggtgtgtgtg	gtcccgtctt	3000
gcctgtgggg	ccccaccaa	caccccgtc	taagctcccg	gctccactca	cagcctggaa	3060
accatgcagc	tccaccagcg	tccgcttgtc	cacccggcgg	ggaccctgca	gccggcagtg	3120
aaaggcctcg	cccaccagcc	gcaggccccg	cccctggggc	agcagcgggt	ccagaagccc	3180
tgagaaccgg	cgctccgtgg	cctctgtggg	gaggagggca	caggcggcca	gcagggtcag	3240
cacagggccc	aggcacgtct	ggtctctggg	cagtgcaggg	cggtgacct	ttcagcagct	3300
cctgaaactc	gtgaagcaga	gtctccgcgg	tcacttctgc	acctggaggt	cctgggggac	3360
cgaagagatc	ccgctggggg	gagagagaag	cagggtgaggg	gccagtgagg	acccggtggg	3420
agctaccacc	acaccctgtc	cggggctcag	accctgcagc	agcccgggcg	gggctcaccg	3480
gcttcttgtc	cctgcttccg	caccgcttcc	tt			3512

<210> 36
 <211> 1632
 <212> DNA
 <213> Homo sapiens

<400> 36	
gcagtgtgtg	ggaggatatg atgactgtag tcagagtact tgtatgtgca gtgggtagtg 60
ctgtggaggg	tacgatgact gtagtcagag tatttgtatg cagtgggtag tgctgtggag 120
gatatgatga	ctgtagtcag gccctttcct ccagggacct aacatttggg aaaattggat 180
tccagactaa	tacatcactt ttaaaaagca ctgagtatct tctgtgtgcc caagtccttg 240

US33026.ST25.txt

ctaggcccag	ggaaggtgtg	aaagacctta	tagtcctttc	tctctgatct	ggggggctct	300
ggccactctg	ggcttcaatg	ttgcctgtgt	ctcagaagga	caggacaagc	tcccactatg	360
tatgttctct	ccttgtctac	atcctgttgc	ctgtgtctca	gaaggacagg	acaagctccc	420
actatgtatg	ttctctcctt	gcctacatcc	tgttgccctgt	gtctcaaaag	gacagggcaa	480
gctcccacta	tgtatgttct	ctccttgtct	acatccatac	cttctctata	cttcccagat	540
ttcacaggaa	aatcttttgt	aaacaaaaac	tttcaaaaga	atatatttgg	gctcggcacg	600
gtggctcaca	cctgtaatgc	cagcactttg	ggaggctgaa	gcaggaggat	caactgaggc	660
caggagtcca	agaccagcct	gggcaacatg	gcaaaacccc	gtgtctgcta	aaaatacaaa	720
aattagctgt	ggtagctcga	gcctgtaatc	ccagctgctt	gggaggctga	agcgcaagaa	780
tcgcttgaac	ctcggaggca	gaggttgcag	tgagccgaga	tcacactgag	atggcgccac	840
tgcactttag	cctgggagac	agagtgagac	tctgcctcca	aaataaaaag	aatgtgttgg	900
ctcatgatca	gacttgagca	cttgggctga	gagcaaaactg	tcattcctat	ttccaccagc	960
tccttagcta	gagactgaat	ctgaagctgg	aaggagcaac	ttcttttgaa	gtattggatt	1020
ttgtttcttt	atgggggaag	gaagcaagga	ggggcaattc	tggtgctctg	aattccgttc	1080
cccatccgca	cctcctagaa	tagggctgaa	gtctgtccag	agtggagagg	aatccctgct	1140
tcctgttaca	ttcactgact	aatagatgct	ccttccagct	tcagattcag	tcggacatgt	1200
ctaaggagct	ggtggaaaca	ggaataacag	ttcgtccta	ccccaaagtgc	ctaagtctga	1260
tcgtgatcca	gataattctt	tttgaaagtt	ttggtttcac	aaagattttc	ctgtgaaatc	1320
tggggagtgt	ggagaaggta	tggatgtgaa	caggagagaga	acatacatag	tgggagttta	1380
tcctgtccct	ttgagacagg	atagcccacg	ctgaagccca	gagtggccac	agcacccgag	1440
atcagggaga	ataaagctga	gcaatgagta	cgaggggagg	gtggaggcag	gggtggcctc	1500
tctgagaaa	ggtagagagt	cttgaatgaa	ggagtgagag	agctttgcca	gtagaaggaa	1560
ttgtaagtgg	caaggcccca	aaactccctc	ctgaaggcca	gggaaacttc	tactccacac	1620
cctatctaga	gt					1632

<210> 37
 <211> 2502
 <212> DNA
 <213> Homo sapiens

<400> 37						
ctgcttgggc	cctgatcttt	gagaaggggg	agcagcagaa	cccgggcact	gacgctacag	60
tgccactcac	accacagat	ttctccacac	aggcatcagt	ctcggtcctg	gccacctcct	120
cctggacggc	ttcagccatt	ccccgggact	cacgtggtcc	ttcctcacac	gcggctctgg	180
taggatgcat	tgctctgtac	ccagggacct	ctgagggtgac	aatggccacg	gtcatgcaga	240

gtgcaagggc	acaggctggg	tgcctattgt	ggggaccgtg	actgcagcac	tcccagacta	300
tcctcgggca	tgttgccccc	aggcttagct	agggcaccag	cggtaggtgc	acactgctcc	360
ggactctgca	ggaggaggac	aactgttacc	tgtgtcttta	tgttctcctg	ctgctgtcac	420
tctgtgcttc	tcctctcctt	gtggtaggat	tcagggcaga	ctctctgaac	accttgtggg	480
aaatagcaga	gtccagcagg	gaagagagaa	gcccagctgc	aaaggtgaaa	aaatggcagg	540
tgtgacaagg	acccccattc	agatttaaat	gaggtcctca	tttaatctct	gttctgattg	600
gataacactt	caagtgtgta	tgtgtgtgta	tattttttgt	ttgtttgttt	ttgtttgaga	660
tggagtttcg	ctcttggcat	gcccaggctg	gagtgcfaat	gtgcaatctc	ggctcactgc	720
aacctccgcc	tcccgggttc	aagagcgtct	cctgcctcac	cgccccgagt	agctgggatt	780
ataggcatgc	gccaccacac	ctggctaatt	ttgtattttt	agtagagact	ttggggtttc	840
tccatgttgg	tcaggctggg	ctcgaactcc	tgacctcagg	tgatctgccc	gcctcggcct	900
cccaaagtgc	tgggattaca	ggcatgagcc	accgcgccc	gcatatatac	atacatatat	960
atatatatat	atatatatat	atatatagag	agagagagag	agagagagag	agagagagag	1020
agagagagag	agagagagag	agagagagag	tctcgctctg	tagcccaggc	tggagtgcag	1080
tgggtgtgat	tcggctcact	gcaacctctg	cctcctgggt	cctggttcaa	gcaattctcc	1140
tgccctcagc	tcccagtag	ctgggattac	aggcacacgc	caccatgccc	agctaataat	1200
tgtatttttt	tttttagaca	gagactcaca	gagtgtctgc	acccaggctg	gggtgcaatg	1260
gtgtgggtctg	ggctcactgc	aacctctgcc	tcctgggttc	aagcaattcc	cctgcctcag	1320
cctccccgagt	agctgggact	ataggctcct	gccaccacac	ctggctaatt	tttgtatttt	1380
tagtagagac	gggggtttca	ctatgtttgg	caggctgggt	ttgaactcct	gaacttgtga	1440
tccgcccctc	tcggcctccc	aaagtgttgg	aattacaggc	atgagccact	gtgtccggcc	1500
actatgcccc	acctctactc	aaggtgataa	gcaagcctgg	gtgcctcctc	ttttggtgcc	1560
agcagaaaaa	gcaaactact	acacaaggct	cttcttcagt	acatgcatat	acaaactctc	1620
accctggccc	caaaccataa	caaaaacctc	agctattctc	cttttcttac	gctctcaggc	1680
cacttttctg	ctgtttgaga	gtcctgccct	gctctcccca	aagacctcaa	ttatggactt	1740
gtggctgggg	gccacctgcc	tctgcagatg	accataacag	ctgtagaaag	gtaaaatggt	1800
gtaaacattg	caatatatgt	tattttcaat	tgacaaatcc	tgcaaatctt	ttcatatcaa	1860
taaatgctgc	ccctcatttt	taagtgtgta	tgatgaggcc	atttatccaa	tattttctaa	1920
ataggctact	gaattatttc	taatcttttg	ctattacaac	tgtgaattaa	aactcacact	1980
gtcaattcag	agaacaattg	ttcctttcca	cttttatggg	gctttaaata	tattaaaaat	2040
gaaaaaatat	acacatacac	acaacacaaa	gcacacacgc	acacatacac	atgtaaaaga	2100
tagggtttctg	ctctatcacc	caggctgaag	tgacgtggca	tgatcatatc	tcactgcagc	2160

US33026.ST25.txt

cttaaattct	taggctcaag	caatcctcct	gcctcagcct	cctcatgagt	agctaggagt	2220
gtaagtgcgt	accactacgt	ctggctaatt	tttaaaattt	tttgtagaga	cagtgtctct	2280
attttgcccg	ggctaggctg	taacacttgg	ctccaagcac	caagcaatcc	ttctgcctag	2340
gactcccaaa	gtggtgggat	tataagcatg	aaccatgtgt	ccagtctgaa	aataaaaata	2400
tataatatca	aaacttcttg	aatgcagtga	aagtattgct	tagaaattta	caacgttgaa	2460
tgcatacatt	acaacaaat	aaaattatac	acccaatgat	gt		2502

<210> 38
 <211> 1853
 <212> DNA
 <213> Homo sapiens

<400> 38						
gatgtttatg	tccagatttt	ctcttccctg	ttatattgat	tacataagga	gttatgaaca	60
gagagacatt	gattattaac	attgttgaat	aatgaggctt	actacaatac	ccccataatg	120
tgcttggcta	ccatgctagg	tgtataaaat	tcatcacagg	gatattaagt	gattcaggat	180
aaatgccaaa	taaaaatatt	cggaagcaaa	cattccgaca	ttttgtcatc	tattattgaa	240
aaaggtagt	ctactttcag	ttatgaggcc	tgtggttcaa	aacatacatt	ctagcttact	300
aaacaaagaa	acctctcttc	aagtttttga	cctaatagact	ttgttacttt	cttttcttta	360
ttgtaatttt	gattccatga	aactaggcat	acagaagact	aacatgaaac	atgaaaacag	420
cttctaataa	attttgcaaa	gcatgaacat	ctgcagaaac	aaacaaacag	aaagtaatac	480
aataagcaat	aaacaaacag	aaacaactta	aatggccctt	ataaaatgca	aaggtttggg	540
ggaggggtctt	ggagtatgtt	cacttaccat	tagtccaata	ccctggattc	agcagaggta	600
attactccaa	ataattataa	ctgagaacta	ggccaagaaa	aaacaactca	caaaaaacca	660
gtaccttttt	ctttgcctgt	agaagctcct	gataggcact	ggatcttata	aaacgtgggt	720
atgaatcact	tttcatcagt	ttgtaaatgt	gctcctaaaa	agaaataatg	gttgagggtgc	780
ttctttatga	tttcttggga	aaagtaaaat	atcatgatgt	cacacatggc	taaagaacaa	840
atctagtagc	agcgaaaaat	agtaataaca	atgctgatta	gaataccttc	tatttacagg	900
atatttagat	cttcaaattc	attatctcat	tcatagatca	ttgtttaaat	tggttttagga	960
gctactgagg	aggcaaatca	catccagtca	ttacaaaaat	ggaatttgat	taataaaatg	1020
tcataaaatt	acctcaaadc	aagttgttga	cttatataga	tcactagaga	atataactaa	1080
atgtgctgtc	tcttaaaact	actccaggcc	tgaagtgggt	aatgttgact	cagactgagt	1140
aatcatcctg	gatacctttg	gcctctacat	ttactgggag	ggtgccaact	accagaaga	1200
atcaaatcat	ctctttggta	caaattgcat	ggaaaattgt	cttccatacc	cactttgggt	1260
cagagcacia	gtccaaaaat	aaattttgtg	atattttaatt	gctaaatctc	caaatttgtg	1320

US33026.ST25.txt

tgctcttttct	tattactttac	ccagtgacag	attaggtaaa	tagttgatca	tttgccccta	1380
agaagtttgc	aatattctgt	tttgatgatg	aattttgata	gacaagtcaa	aaaaaaaaaa	1440
ggaaaaaggt	actcattcaa	ttcaatctag	acccaatcta	gggaggttcc	actctggtct	1500
accgcagctc	aggagagctaa	catgtgcctt	gatcttccaa	ctctagtga	atatcagtta	1560
ggtgtagagc	ttggaactat	tggagagcat	tctgaatggt	ccagttttct	tttcttttct	1620
tttttttttc	ttgaagaaaa	tagatgtttc	aagaaatgac	tccagttctc	tggtcttaaa	1680
cacaacagca	ataatttgaa	gttactttta	attcatttaa	agacattcag	gattaaatct	1740
caagacttag	cccaatggtg	atcttcaaag	gatgttaagt	ttggaactgt	atgggaattt	1800
gtttgaaaag	tagagcaatg	gctgggtttg	gagttaagca	ttttgagatt	cac	1853

<210> 39
 <211> 2616
 <212> DNA
 <213> Homo sapiens

<400> 39						
gtgcccagga	aagaccagga	aaatacaagt	acatggctgc	ttcataccat	ataccccaat	60
tcttttaaagc	agcaaaaggc	actttttttt	tcaggccaga	gtgaatctaa	aacaaacctg	120
gcttttgctta	cagggaagct	gtcccagaag	gactgagtga	tgctcttgt	tccctaaggt	180
ctggagagtc	tttgcaagtt	tccaacgaca	tttccaacca	ggtgggagag	accagcagtt	240
gacgagtcaa	gtcagaccca	aaaaacgacg	ccaaggtagt	gagtgggtgc	ctatttgga	300
gtaggatgat	ttgaggaaaa	caggaagaaa	aaccggtcag	aaagtggcac	tttggaaagt	360
gaaagctgtt	tgcaaatagc	aactctggct	aaagcgaaaa	tgtaaatcaa	gtagaaagta	420
aaattcagga	tcttagaagc	tcaccttct	gatgagaact	attttttttt	ccgtgaagga	480
actattatta	ctttaaaggt	gagggttaatt	tacatatggg	gtgtatatat	tctaaaaata	540
gtaataaaaag	taccttttat	aagcaatggt	gtgtggcttg	tagaagaaag	caggaggagaa	600
aaaaaggcag	gcaaaactag	tctaggtcta	ggccctaaaa	atgagcttcc	ttcccacttg	660
actggaaacg	cccatgtgat	ttctaggtcg	aaaataggta	ggatttaacg	agtaacctag	720
ttcccttctg	tctctgattt	ctgatcagct	gatggagctg	ctagtaagag	gggccgatca	780
tgctcccaga	cgagtccttt	ggcctcttgc	tctccatccc	aagcctgact	ccttcagcag	840
cagccccctc	cttctgtgtc	catctgatgc	aggcaagcag	gagcagtaag	agggcatccc	900
atgttccagt	tcaccttcta	tggggtgact	aggaggttcc	cggtaactag	ggcagcccag	960
gcccagcagg	ttgcaaaagc	agctgcaagc	ttcagaaacc	cacttcctcc	aacaccaggg	1020
aggtggcaga	gagcccatcc	aaaagcccac	tgggagaggc	ataagattct	gtgccaggcc	1080
cccagggtccc	ctctgtgtca	ggtaggctct	gctactggcc	tctgaagtaa	aggcaaacac	1140

US33026.ST25.txt

aaacgggcag	ggcaggggtgg	caggaataaaa	aaactctgga	cagaaaccct	tttaataaag	1200
gaaattccac	ccctcccaat	ccttccatgg	aagggtgaga	ccttaatgtg	atgtaagagg	1260
aaggtcttct	ctggctttca	gggaaacagc	tgcagctgaa	acttaggggc	ccattccagg	1320
gcacttttca	ccacagccag	tgcagccgct	ccaagtgcca	ctgtcagccc	catcactgcc	1380
aatttcacaa	agcgggttgg	ccttggttgg	gtcaggacat	cttttgttcg	atcttcaggc	1440
cgcagaagtc	cccgaaccg	ctgccgcagc	accatatcag	gcctctgctg	ggctgatgcc	1500
agctcaaagt	cttgaaagt	agaggctgcc	gtcctgcagg	ggaaagagac	ggaaggaagg	1560
aagtggatat	aaagaggagg	aggaaagcaa	aactacacca	cataggctgc	gggcagagcc	1620
tttcattgct	gggaaagctc	tttatgataa	agacccatat	gtctacagtg	gggattccac	1680
tggcctaagc	tcagatctct	ggaaacatgc	cccaacccta	tcccaccaga	cacaaacctt	1740
ccctcgcttc	tgctcattta	cagccacccc	cattcaacca	gtgtcccagc	cttgctcacc	1800
tctcagcttg	ctgttgggca	gcggcctccc	gagcaagttc	ggatggggga	aactgaacaa	1860
aaaggtctcc	tgctctgctg	atcagtgtct	catagggcaa	gtcctgaggg	atctgggaca	1920
acaggtgggtg	gaccgaggcc	atgtcacagt	cacagtccag	gacttcctgc	tcgcgataca	1980
acacaatctg	tggggaggta	gtaaagcctt	gcagtcagag	gccagacaca	cagggcctgg	2040
gccacctgca	ctccattatc	cttgcatatg	aatttaaact	ggtaacagac	aggactcagc	2100
ccaaatgttg	agcaaactct	tgtatccatc	aaggaagtaa	taacatatat	acgctcagtg	2160
ctactcctac	tctctggccc	ttcctgcaaa	cttccaccac	atgacatgaa	aggctgacca	2220
gttacaatct	aagtccttcg	ggcatgctgg	gctgctcagg	tgtcccttta	agtcttgaaa	2280
gaaatgaagg	agattctttt	aggagaaagt	aggagaatta	ttgggagatt	cctggagctc	2340
cagcatagaa	gaaatggttc	aaaacagtag	aaagaacagt	cttgctccct	ttaagcatct	2400
tccttctgac	tgttggtcca	caaatccaca	gatgctcaag	ggaccagtgg	tcattgaagg	2460
acttccctga	attcccatct	ccaccccatc	cctcaagacc	cttctactaa	ctgaagcccc	2520
taccctccac	cgcaagccgc	ctcccttgtc	tgtcatgaca	ccagatctct	tcttttctta	2580
aatctggagt	tgacagctta	cgctactatt	tcccta			2616

<210> 40
 <211> 2997
 <212> DNA
 <213> Homo sapiens

<400> 40						
tcagtgtctt	cccgtctctc	tgcttctctt	ctgaggtcag	tcacagacct	ggacatccgg	60
cttggtgggga	gtattgagtt	gcagtggctg	tgtgtgcttt	tgtatgtgaa	cacatgtgct	120
catgtgttgc	atgtgtgtgg	tgtgcactgt	gtctggatgt	gatcataggc	agcattttgg	180

US33026.ST25.txt

ggtattttttg	ggtgtcaggg	tactcactgg	gggcattgaa	gatgcagtgg	caaagcaggt	240
gtccaggaggt	ctgagctcag	acttgacttt	ctgcctgggt	cagcctagat	tttctacatg	300
gaagtgaggt	gaaagggaga	ggaatattttg	ggagcccttc	tctgtccctt	aggtccctag	360
gagcccaagg	atggtgagag	ggcccagccc	ttggttttttg	atctatttga	gaggaaccga	420
gtaatcttct	ggggtctgct	cttggcttct	tcagtacagt	gaaattagct	gagcagttcc	480
tctgggcaga	gcctctgcta	acatttccttt	gaagcctccc	tccatgctgg	gaatccagca	540
atgtccagtg	ataagcttgg	gaggaggaca	tacttgcagt	ggaagagaca	ccatgcctgt	600
cccaccagcc	ccttcacttt	tggggtcaag	cattattaga	gccctgcaa	tggattgtgt	660
gtgtcgtgac	agatgtcagc	tgggaggaaa	agacactggg	cccctcctgc	acaggggcct	720
tattttctaga	gaaagggag	actgaggtgc	aacgtgggcc	tgtggttagg	gagactgcat	780
tctgaacacc	gtgggaagaa	tgctagaagc	tctcagcctc	tgccctcctc	tgccatgctc	840
gagctggtca	gtcatggtcc	ccgaggccct	acagcagcct	gcagggatca	gggcagcaaa	900
ggtgctgcaa	aaccagcaag	accaacagga	ctgtacaaga	ccggtgttcc	acggcgacac	960
cttgtgggtg	caatggcagc	agcactgcct	gtggaaggac	aaggctctcc	tgcagctcct	1020
ccctaccagg	ctttggacta	agcctccagc	atTTTTggac	agttggcatg	catgttggag	1080
gagagtactt	gagaaggaaa	taatgggctg	ggtgctaata	gaggatttgg	aggctcacac	1140
actaaatggg	gaaggactca	ttcataccca	ttccttcttc	cgaaatgtct	ccttccatgt	1200
cctgccctcg	taccatttcc	ttcttccgaa	atgtctccct	ccatgtcctg	cccaggcctg	1260
ctctttgggt	ctcctggctg	gtgggggaac	agatgtggcg	taatcacgtc	gagatgcagc	1320
aggtgcacca	agcactgtgc	gcaccgctgt	tagccccagg	acccccagtg	tcagcactgg	1380
tggggctggt	gtttgtggag	tgtgtcagtg	gactggcagg	cccgtggatt	ccacgtgtgt	1440
aagagagact	gacagccctt	cctgtctcag	agcagcccct	cctgggtccc	atcctgggtc	1500
ccatcttggg	gttggacatg	cccttgtttg	agcttggccc	cttcttgctg	ggccaccagc	1560
cctgacccta	aatctgagag	ggggcttggc	tgggcctggg	gtcaggggac	aaacagccac	1620
cctggctgag	gccctgggca	gctgaggaac	ttcagccagc	tttgggcagc	tcttgggttg	1680
ggagatgggc	tgctgttttc	tcggacaacg	ccctccccag	cccctcaaga	ctctgttttc	1740
agtcagttca	attagtacaa	ctttaaagca	attagggaga	attagtggcc	aggctgctgc	1800
aggcagatgc	tgaatacact	catgccccct	cccccaacct	ccctcaccga	acctgacagc	1860
tgctgcgggg	agtgcccttc	tctgctggct	ctgtcccttc	tcccagagat	ccagccccca	1920
tctctccttc	tctcaagggg	ctgaggaggg	gaggggtgggc	agtctagggg	acagaccag	1980
agacaggggc	cctgggactg	ggaggggtggg	gcaggccccg	ggaaatgggc	caacttcccc	2040

US33026.ST25.txt

tcaagacccc	aggcctgggc	ctgctctaag	gagagaaggg	atgggtgctg	gttggaggct	2100
cagcccctga	gtgaggggtga	gggtactcag	cgcggtattg	gaggactgac	caggattgtg	2160
gcccagcctc	tggccctgtg	gcctccagga	gccccagct	ctggtgaggg	caccctttgg	2220
tggggctggg	ggctgttctt	cagtgggagg	cctctgagag	gctgggcctc	tcccactagg	2280
tgtgggggtg	cagcgaggcc	ctgcttctga	gccagtgctg	gagccacacc	accttctctg	2340
cctggtagtg	aaggaggtgg	ccccgtgggt	gctgcagacc	ctgggccctc	cctgggtgcc	2400
cttgggctgc	tctgtgggga	gagctccagg	tgcttgcttg	cgtaggatgg	gcaccagggc	2460
agggtgcagg	ctgacttcgc	agatggagcc	ctttgtgcgg	ggaccctgtc	ttccggcctt	2520
gcccctccct	actccccag	cttctcaaag	aagggtctgt	ttctgagcct	cctctgtgat	2580
gccccacca	gccgcagcct	ccctcagatg	tgtggggggg	gtccgcggtc	ctaaccaatg	2640
tcttttctgc	atgtgtccac	gtgtatcttg	cactttctct	gagcaggctc	tgggctcagc	2700
accgggtaag	gcagatccat	gcagcccctc	accttggccg	aacactgaac	agatgatgac	2760
atgtacttgt	gcaattccag	cttcaacaag	ggtcaccaga	acagctctga	gcaattccag	2820
cttcaacaag	ggtcaccaga	attgctctgt	gcaatcccag	cttcaacaag	ggtcaccaga	2880
acagctcgga	gaagggtgtg	gaccgggtct	gaaagcttcc	cagagactgg	cttagcggga	2940
tgaccctggg	gaaggagata	gtgggtggag	cagagaggct	gattagaggc	tgagtct	2997

<210> 41
 <211> 2166
 <212> DNA
 <213> Homo sapiens

<400> 41	
ctaccccaga	tcctgaggat
tcacatagcg	ctgtactggc
atgagatcat	gtgagcatga
60	
acgttacttg	acttgaggcc
aggggctctg	catgcagcgt
tatctacaaa	tgtctgggtgc
120	
catgtcaggg	gtgggtcgga
agacttttgt	ctccccctgg
cccagacatg	acaaactcag
180	
agagtttggg	acctaccatg
acaacccatg	gctgttcaaa
gtgctgcttc	tgtgaacaaa
240	
gccagggacc	cgtagccagg
ttctcgtagg	atcaccagct
ctttcatcac	tgctctgttt
300	
gagggtcatt	tcccttcttt
tcttgacagat	agggccgagt
gactgctctg	aatagagaag
360	
ctaagatgaa	aagtgtgccg
gagaaggcga	gaggatgaga
aagggtcgac	tgccatagagg
420	
acagtggggc	agcaggtgca
agtagaatct	cctgactaag
aggctgagga	gggtggcagc
480	
agagggcata	agccgtgggt
acagtgtgag	aatgtcacac
agccacagca	gcatcggggg
540	
cagccttcca	gaggctgggt
tcggacagga	gatgggtggg
gaggagccag	catgggaggg
600	
cagtgaacac	acaaaccctg
tgcatggggc	cgtcacagcc
tgccggctgc	ctctgagttc
660	
agcaccaggc	atgtggacag
ctcaggaccg	gttggaaggg
gctgccagaa	gtcaggtggg
720	

US33026.ST25.txt

cggtgtgtcgg ggtatgcagg agctgatggt agctcctcaa ccccttctt gccaaatatt	780
cagagatatg gaatcaagga aaagatcagt tgcattggcca ttcagccaac ccttcttcct	840
gccacccagg gcaggagggt cctctggcaa ggactactgg acagaggctc ctgcaaggga	900
aggagctgcc actgggtatg gcccttcttg cctctcttta tgttggtgga ttctaccctg	960
ggtgggtata aattccattt atgctggagt ttttaacaga cggttgacga tatggctgct	1020
tcatcagggt atccattatg tagctctaata ttttgatttg ggaatgaagt gagccagtat	1080
cccatgctta gagctgtcaa gagaaccctt tctcagacat gtgttaaata atgccccatg	1140
gagggtgcct ttctataccc caaggaggag gctggcttat tctgctgaat ttgttgggag	1200
aatttcagaa tttcagacat gcaacaggac atcacccaat gtgaggacag aactatctct	1260
gcaaggaacc aagggtactg tgatggctgc cagtggggat caggggtgag ggcatatggt	1320
ttagcctcag agatcaagag agtggaagc aggatgtgtg ctgaggtcac cgactttcta	1380
tatctgttct gtgggctgag ctggcaggca ggtccatgca ccaaagaaag ggaaggggag	1440
ggctgtggat gcagcagaag atcctccttg gatactcggg aggggagcaa cacaaatgct	1500
tgaatgctgc tcttagatcg ttgagtggga gcttgatct tccacaatac tgtctgctgt	1560
aatggcttca cagcagtgc agggaagtgt atgctgccct cagtacataa atgagagaag	1620
aaaacaggcc agaccatggc tctgtctttc tccccctccc tctactgcaga gaagtgcagc	1680
tgaatgtggt gtgagggtact gctggagcca ggcagggtag gggacagcca gtttctggcc	1740
acctcctcac cccccactct tctactggccc cttccttctg ggaagtggct gcctatggct	1800
cgctgggact cagcagggtgc tcttctctt cttctaggct tctgggagga aaaccattat	1860
gcaagaggct caaccgtccc accgagacac tataacctat gtaattttat ggatttttaa	1920
agaatagttg taagtccatt ctaattctcc agatttgctg gctgtcagaa cacattttaa	1980
ataaaataaa acactaccgt gtctccttct ctggcccagc gctgggggtga atggcccccg	2040
tggtgtcaga atgcccggaa cccccagct cagcgttccc acatatggcc tctctgcagc	2100
ccctctgacc acggctctcc acacaccca gcccagggt ttcagagatg tttctgactg	2160
tcccca	2166

<210> 42
 <211> 3695
 <212> DNA
 <213> Homo sapiens

<400> 42	
ttttccctcc tggcctcact cttgcaactt ttctatctgc cactggggctc aggatccatc	60
ctggggctcc cacccttctt ggagaaggag aaaacaccca cgtcctggta gtgttcagtt	120
cttccaggcc catcagagct ggccgtgggt gcagggtggt cctgggtggtc ctctgtgctg	180

ggctctgttc	ttagtccaca	cttaagttct	cgtagcaccc	agcaccttgg	aggctgtcat	240
tgtcagctcc	ttcttaattc	cactgattgt	acactttcca	gactgaagtc	attgcttggt	300
ccagacagga	acaaagaaag	ccatggctgc	ttgccaggat	ctcctcttct	ctgagctgcc	360
aggttcagaa	gtcctctgtg	gcctgtgtgg	tcaccagcat	ctaccaccag	tcttcctgcc	420
cctgtgcctt	ctatgccagt	ttcttcgtgc	catcttttgt	gcatgtaaaa	tcctgaagta	480
ttccaagagc	attagtggca	gtgaactgaa	tgcttgacgt	agctttttcg	tggctgttgc	540
tgacccttcc	aacagttcct	tgaggggtcca	cctcaacaca	gctttaagaa	gagggcagct	600
gagggctgag	tccctggctg	aatgaagaag	ggtcaggcct	ggccctgagg	ccactcctca	660
gaaatgcacc	tgatacaact	agcgtctcct	gtagattcct	cagcttcctc	cttgctgggg	720
agttctaggt	tatgctgcct	tggagtgtct	tgctattgtc	ctgggctatg	ctactctttg	780
gccctgcctg	atactcactc	cagttgcagc	tgagctgttt	gaaacctgct	ctcctaagtt	840
ctggggaaaa	tcttaggccc	tcctctatct	gatgctgtca	gcaggacagg	ccattgatta	900
tttgaggggtc	ctattgcttc	ctccctgcag	gccattcttc	accggcctgc	tctgggagcc	960
cttgaccctg	ggaggtggaa	ctctgcccag	ctttagtggg	ggaatatgca	ggggtagtgt	1020
cttcctgagt	ctccttcctc	accagacgct	gtgaggcccc	tgccctgggct	gcagattggg	1080
gttgggggagg	gtggcacggg	atccccagg	cccatctcac	tggctgtgca	tccctgtact	1140
gcaccccagg	cccatgtgct	tcgtgaagca	gctcgagggtc	cctccatatg	ggagctaccg	1200
gccaacgtg	gccccgccca	caccaggggc	caacttggcc	aaggagctgg	agaagttctc	1260
caaggtcacc	tttgactacg	caagtttcga	tgctcagggt	tttggcaaac	gcatgcttgc	1320
cccaaagatt	cagaccagcg	aaacctcacc	taaagccttt	caatgtaagt	tggggagaat	1380
tgttcttggt	tctcttctgt	gttgctcctg	ggaggggcag	gattcaagg	gcagtggagg	1440
agggaccctc	tcgaggagct	actagggagg	gaaactctac	cctcatggga	ggaccacgat	1500
gcaggctgga	ggtctcagct	gtcccagtgg	gcactgtggg	ggctttcttg	gggcctgcat	1560
ctcactcctg	ctgccacctt	catgttcacc	attaacattt	atgtgtctcc	tagttatttg	1620
tgaacaacaaa	cccagatccg	ttacgggcgt	gtgtgtccaa	agacttcaga	gcaacccac	1680
cagcatgggt	cacactggga	gacgccactc	tccccactgt	cctcctgcta	cctgtttaat	1740
cccagtgcag	ccggctgtcc	atttcccagc	cctgcctctg	gggaggggtca	gactgtgggc	1800
tgggtggggc	cagatgactg	cggggctggg	cccagtggcc	tggcaggaag	ccattgctct	1860
cctggtgggg	accatcttac	tggatacaat	gtgttatctg	tgacattagt	aacaaatttt	1920
ctgggtaatt	gtactgacaa	aatcattcc	tacaaatctt	taagaacaat	cctttctgtc	1980
ttgtcttggt	acttactgcc	ctaatttgtg	gaataagccc	attagccctg	gaagtgcagt	2040
cgaaatggaa	aagcattcag	tgtacacatg	agattggggag	tggcatcgcg	gggcagatgt	2100

US33026.ST25.txt

tgtagcccc	aaacatgacg	tgacgagttt	cctacatgag	aataataaaa	gtactgattg	2160
atgaggctgc	cagtggggtg	tgagcctctc	ttcctaactt	tgacagaacc	tgctcttttag	2220
gatggaggac	ttcctgcctc	caggcacaca	tgctactttg	gatgaggga	tgcaatggtg	2280
ccagtggaga	gggggacctc	acgataagct	ttccaatata	tctagacctt	tctggatata	2340
ctggtgacat	cgtgattgct	gagaacatcg	tgcatgagag	tgattttgca	gctacagtac	2400
aattgctaga	aaagataaca	ttctgtgcct	tcatttgtca	tgttcatttg	agcaataatg	2460
ttactttttt	aaggcagtga	tggttaccgg	ggacaccaag	tcagcctaaa	tatgggtaca	2520
cccttttgag	atcatgggac	aaaattttcc	tatttgggcg	atatggcaaa	cactcatcct	2580
attcacagaa	tgcttcagtt	tctgatagac	aagttatttt	tgtttgaaat	atcagggtg	2640
ctggaatgtc	ttggaggctt	ttactccttt	tgcccaaatt	ttcactgagc	cagaaacaag	2700
attgtctcct	cagtccccta	gaggaggggtg	ggtagggagt	aggtgtgtga	ggacttgga	2760
ctgggacggg	tgcccaagcc	cctggccac	ttcgatatag	ctgtgccctg	ggccctccca	2820
tccctcccaa	agtgccccct	ccccactgac	ttgtctgcat	tgctgcctct	tttcaagttg	2880
tatatcagcc	tggtgttggt	ccctttttgc	agccaaacct	ttcccaaagg	cctcttcccc	2940
caggcacagc	ccctccagta	gttatgtgag	gagcacttca	tcctcttctg	caggctttga	3000
ctactcgag	gacgccgagg	ctgcacacat	ggctgccact	gccatcctga	acctctccac	3060
gcgctgctgg	gagatgcctg	agaacctcag	cacgaagcca	caggacctcc	ccagcaaggt	3120
tagtacatct	gccacagagc	ctttcttggg	agaggtgagt	tggtggaatt	tgtagtcagg	3180
cccactgct	ctctgcacaa	aatgtcccta	ggaatggctt	gtgcctagct	ggcaattctc	3240
attcttaact	ttttctccct	cctggccatg	gccccaaagg	ccgcagagct	tggtgggtc	3300
caccaggaga	acctggtgtg	ctgagtgaag	ggggaccaag	ggctgcgaac	acaagttccc	3360
acgtgttagg	ttgtgtgcac	accatgcgcc	cgctgtgtct	cctctgagcc	tgagggtggt	3420
gcacacacat	gcccattgtg	ttccttctga	ctccagggcg	gtgcacgtgc	cctgttcaca	3480
cgtgtttccc	gcagtcttgt	ggttgctgac	acactctcct	tgctcagagg	acctagtctt	3540
acccgtgttt	atgacatgtc	ctgagggact	ggtttttgtg	ctgttgggag	gcaagaggaa	3600
ttgtagggcc	cccttcatgg	gaaatcagga	aatggcagct	ggattttttc	cctctcgctg	3660
cctgtctgtc	cccgttgtcc	tgcttccttc	tatgg			3695

<210> 43
 <211> 3164
 <212> DNA
 <213> Homo sapiens

<400> 43						
tggtttcgag	gttactgcga	ttgttgtaat	ttgtatgtta	ttaccctcgt	tgtgccatct	60

US33026.ST25.txt

catcttcatg	gcatttcggt	aacacttatt	tagtgcctac	tgtctattga	gtgccatccc	120
tggctctgaa	gggaactgta	tcctgatgtt	tacgctgcgg	agtgatgtgg	cggagggagg	180
ccagggaggg	tgtcaggagc	ctgccacact	gggcagcacc	aggcctcatt	tctagggcaa	240
cgcaggacct	ctggctgaag	caggggaggg	atccagcccc	tcaggggtgt	tgtcttctgt	300
gttttgctgg	ggggagttaa	gtcttcctcc	cttatccaga	agataggaga	ctccgggaga	360
tgcttctgtg	gacactgtcc	tgaagggtcc	ctctccctcg	ccactgggt	tgggcgcca	420
ggcctccccg	ccagccggtt	aaaacatctt	cctgctgggt	ttttgcagtc	agagccagca	480
gcccattctt	ttgcttcttc	tgaagcagat	gaccaggaag	tgtcgggaaga	gaattttgag	540
gagcgggaagt	atccggggga	agtcaccctg	accaacttta	agctgaagtt	tctctccaag	600
gacataaaga	aggagctgct	cacgtaagtc	cctgtttggc	tggcacagct	cctaggggac	660
cctctgtggc	ctggggagga	acaggccctg	gtcccaaccc	atgacgaccg	ggtctgtctca	720
ggctttcccc	gacctgtcct	gaccacctcg	agccaggcag	cctgtgacag	gagccaggggt	780
attcagaggt	ttcccaacac	ctttgtgttg	tgctgggctt	tactgcaatc	ttctaaaagt	840
gattaagaac	aaagaaatcc	cctggccaag	ctcaccaagc	aggacagagc	agggcagggg	900
cagagtggag	gagagctcct	cagagagctc	tgcaggaagc	cctcggggca	cccagaggcc	960
tggccctctc	cctgaggccg	cagctgggca	cgttctgccc	tgggctccat	ggccaaggcc	1020
tggaatgtac	tgccttaggg	ctcaccaccc	tcaactctgt	cagcctgggt	ggcccagagg	1080
ctgcgtgtct	gagctggtcc	gcatgggggt	ggaacagaca	gagttgctga	tggatatgaa	1140
tcagatgtca	atgaccttct	ggtcagcctt	cattgccagc	cacctgtcct	aggggactgt	1200
gagaggctgt	gcctggcacc	tgtccacag	gtgatccagc	tctcacatgt	gctcagagta	1260
catttctggg	gtccctcttc	tccccaacct	gaaccctct	tgtaccctca	cacttgtagc	1320
ttgccctcct	gggagtggct	ggatccaggg	aaggccttgc	ttcagggcct	ggagaaggga	1380
aggagctcct	ctgcctaaat	attcgtgggc	acatacacgt	gcacacacag	cacatgtgcg	1440
tcagaggcat	cctaacttta	agctcaactt	taatttggtt	actttttctt	cttgagttaa	1500
gttggtgtggg	agaaacttcc	agcctgagag	gcaccggctg	tcctccaagg	actgagtgga	1560
ggagggggcca	ccgcttggct	cgcggtgag	ccaggagtgg	gcaccagtct	ccctcgcaga	1620
gcaggctcag	cctggggggc	aggtacacac	cactctccgg	tctgacactc	tttttccttt	1680
gtccagctgt	cccaccctg	gctgtgacgg	cagcgccac	atcaccggga	actacgcctc	1740
ccaccgcagg	tttgtctcct	gctcgggtcc	gtctggcctg	ggtgcttcgt	ggtgggtctt	1800
cctcctctcc	tcctcctctg	ctctccctct	ttggcttacc	ccaatatccc	atctcttctc	1860
tttcagcctc	tctggttgcc	ctcttgctga	caagagcctc	agaaacctca	tggctgcca	1920

US33026.ST25.txt

ctctgctgac	ctcaagtatg	tttgcgctcc	ctgacctcct	gtctcttggg	cggcacccctc	1980
gctttgctct	ccttccatga	ggctcctgcc	aaaatcagcc	ttctccaagg	tgccaagcct	2040
cagctggccc	cagctctcct	gagatgggca	gaggggcagg	gccgtggagg	ggccgattct	2100
gcttggtg	ggctgctctg	cctgtgtgca	cctgctctga	gctctgctgt	ttgcctctcc	2160
gctgggggct	aggggtcgct	gcaggctcct	gcgctgctct	tgacccatcc	cccaccctcc	2220
agcctctcct	gaagatcccc	gacagggctg	tctgggcctg	ctttcttact	gccctagaga	2280
tttgggaaaa	gcccagaacc	gaccagggaa	cgtaagccct	gccgtggctc	ggcaggccac	2340
aggctgtg	gctcttgcta	aatgaactga	acgctgataa	tgaagagaaa	gctccttccc	2400
ctccccctctc	ctgtcacgct	ccagctgctt	ctgccttggc	cctgatgccc	tcccccatg	2460
ctcatgcctt	ctctttgctg	ggctcaccgg	tttctgcttc	tgtacctccc	tgcccctacc	2520
taacacatgg	gcagggcagg	ccctgcaggc	accagctata	gcttgctgga	cagtcctgca	2580
caaccaggcg	caagcaccca	gaggtttcca	ggggtcagtg	tcctcctggg	gctggagtca	2640
gggactgtta	ctgcctttgg	ttttcatgcc	tccagttgtg	ctgtgactcc	tcagcctgtg	2700
tgaccctgag	ccatggggag	ctcctcctgg	gcaccggggc	cgagctgagg	ccttgaggga	2760
aggggggtccc	attcttgtct	cctcagggtca	cctctctcca	gggggtgtccc	tccctcccat	2820
aggcctctgt	gttggggggc	ctgaatccag	gtcaacacac	cctgggttat	tccattctgg	2880
ggccagacag	gatcctgggc	actggtgcct	ctaagatgag	gaaatgaact	tgctgaaggc	2940
ttctagggac	cttggctggc	tcagacctgg	acagaaagct	ctaggtctcc	cagagccccc	3000
accagcagcc	ttgtctctgt	tcccctctgg	aggctgggtct	ggccccagca	gccaggagga	3060
gtgtgtcatg	aggcccttca	gttcccacag	agtgggggtgc	agcatctaag	tttccttcct	3120
ggaagttaat	agcttcaaca	taagcatttt	ctgaggctga	gatc		3164

<210> 44
 <211> 4370
 <212> DNA
 <213> Homo sapiens

<400> 44	
atgtatgccc	60
acaaatctcc	
agcgacccca	
gcctcagtta	
ctggacagtt	
cccttcgcgt	
tgatgtgaaa	120
cgggtgcgttt	
gtcctgctct	
ggatttcagg	
ggctgctgt	
agaattcctg	
ttgtttcact	180
ggctgtttta	
ctgcagttcc	
cagtgtctcg	
tcatttccat	
cactgcacct	
ttgtaggatc	240
tgcaagagct	
aggtctccag	
cagttctttt	
ttttttaaag	
cattttcctc	
attagccttg	300
ggcacttact	
gttttgaaac	
taattttatt	
atcattttgt	
tgtgctttct	
ccttttagtag	360
gtactgcatg	
gaatgtttat	
gttaattttg	
ggagagctga	
catctttata	
acattgactc	420
tcagtctctg	
attacttaag	
ctttgtttaa	
tatctcttag	
tattttaaga	

taaggacaat	atctctttgt	catacatggt	tgtgcacctt	tcttggttaa	tttgttccta	480
ggtatTTTTT	gtgtattatt	actgttataa	gggggtgggt	gaagtgttct	ctaaatacca	540
atgagattaa	cttggttgac	agtgatgtcc	aggccttcca	tagtcttcca	taggggtggt	600
ggggtcaggg	gtcatcagct	gtggctctga	ccctccatct	cagtccagac	ctcagcatgg	660
ctctaggta	caggcagtga	ttctgaatgt	gcatttcttc	cagaaactcc	acttgagat	720
gttggcagac	cagccacgaa	caactaaata	ccacagtgtc	atcctgcaga	ataaagaatc	780
cctgacggat	aaagtcatcc	tggacgtggg	ctgtgggact	gggatcatca	gtctcttctg	840
tgcacactat	gcgcggccta	gagcggtgag	tggggctctcg	agcgcattcc	gggtgtttgt	900
gccgaggctg	gtgacgtccg	aggtggcctc	tgagtgtgct	gacttgtgac	cctgagctgt	960
tgggggctca	ccggtgactc	catggtcttg	ttgagcacc	tgcacgtggg	gctcagggtc	1020
ggtaaaatag	cagtgcgtgg	agaccgcgtg	ctagaggccg	tggcgcccg	gtacaatgag	1080
tcgcagacag	cacagacggg	agtagggcag	aatagacaat	atcccgtgaa	ttgcgtgggg	1140
cggggatatgt	tctgtgagac	gtttatttca	gttgagtaga	gaaacacgtg	caccacatg	1200
tctgtgctgg	gccttgggtg	tggttggtct	catgggggtg	ggagggatgc	acacgctggg	1260
ccccctcccc	accctcttta	ggccgtctat	actgtgctga	gctgagccga	gctgcagcct	1320
tggagactcc	ttacacagtg	ggtggggctg	cagcacagtg	tccaccaag	tccaggctct	1380
gcaggacca	ggaccagcg	cttgggtgct	tcccaccaga	cccttcctg	agaacctggg	1440
tttgaaattg	tctgacaggc	ctcagatgtg	gcacagacca	gcattgtcac	ttgggtgcta	1500
agaagtgtgct	gtgctggtca	tggattaaga	ttgctgtgctg	tgtggcagcc	ggctcgggca	1560
tgcgagtctt	ccatccactt	gcagccctgc	gtctgtgtct	tgtccgggag	gtgggggcag	1620
ttgggagggg	tagaggcggc	tcctttcttg	gtgcccctgg	aggggcaggt	gtggccagtc	1680
ctcgtgcct	ctgctgtctg	gaatgctgct	tcctcttctg	gtcattgacc	atttctctgtg	1740
atgctggttg	tgactcagga	gagtagatga	cgggccgtgt	gccggccgga	tgtacgctga	1800
cgggtgcctct	gctgctgcag	gtgtacgcgg	tggaggccag	tgagatggca	cagcacacgg	1860
ggcagctggt	cctgcagaac	ggctttgctg	acatcatcac	cgtgtaccag	cagaagggtg	1920
aggatgtggg	gctgcccag	aagggtggacg	tgctgggtgtc	tgagtggatg	gggacctgcc	1980
tgctggtgag	ggcgggcgtg	cgggcagctg	ggggccggag	ctggggggct	tctgagcacg	2040
ggctcggctg	ggccaacctc	aggatctcaa	gggtcgtgctg	tgattcattt	tgatgttttc	2100
cctaattgtga	ggtctaatta	atttcttctg	tggacattgg	ctcagtgtct	tgaattttca	2160
cctgatttaa	aaaatgcctt	tatgagaaat	ttaagtcaaa	gttcatgtaa	cattttcatg	2220
agtgaattac	atgaactgtg	ttctcctcgg	ggatctgtaa	aaatcctgtg	cctaacaggt	2280
aaggctgttt	ctttaatgcc	agtagggcct	tcgtccctgg	ccagggtctc	ctcgccttag	2340

US33026.ST25.txt

actggcccca	gtgatgctgt	gaagccactt	gggcatctgt	agggccagca	tatgcctgtc	2400
ctgtcagggt	tgctcaccct	gagtttcaca	tgtgggtgga	agtggactgt	tttctggttg	2460
cctgtgaata	tgccctgcac	aaacgctgtc	tgcttgagg	gaagttgacg	ggagtgtggc	2520
tggatgctgt	ctgcccgcgc	tgtcttcctg	ggctcagcat	cctgggacac	aggacattgt	2580
agtggagcat	cccaacctga	aactttgtct	cagtgtagag	accagaaaag	atgggggtctg	2640
ggtgaaggag	tgtggagtat	ggctgctgct	ttccaggaaa	cggtttcccc	tggtaacaga	2700
tggcattggg	cttttagtcc	tgttgaaatt	ttgttgtcag	aagataaatg	taaatagact	2760
caatgtccat	gctgtgactt	ggcttattaa	taacatctgt	ggagccataa	gatgacacac	2820
aggagaaacg	ggctccactc	ctacccccctg	aaggggcatt	tgcccttgcc	ctgaacagca	2880
gcgcccattc	aataagtatc	tgttgacagc	tggtgccccg	gccacgggga	caaaaagagg	2940
acagagcagg	agtgaggctg	tggtgaggcc	aaggttgtgt	ggcggtgat	acggggaagc	3000
ctggctgctg	gagtgtccgg	ctgtgccctg	gattgggtga	gagggaacac	ggagggaacgt	3060
ggggcagagg	gaggggagag	gagtagccac	tgtgttcacc	gtgttgccgt	gttccagggc	3120
tgcccagtgg	ccggattggc	cagactgtgt	tgcatcaggg	aggcagaggc	cagatgtagg	3180
gaactgtgtg	tctgaggact	ttgtgccacg	tcctggacac	cgaagggagt	gccactggtg	3240
tgtgagtgat	ggagtaagag	gtgggctgtg	ttttggaggc	ccctgggtat	gtgtggccgg	3300
gactggaggc	cagggaactg	ctgtggtcca	gccccagcat	gcagagaggc	ctgggacatt	3360
ctgtgtgagg	ggaggcccct	ctgtgtggga	ggtgcacaga	cttccaggac	tgaccatggc	3420
tttattgtca	ggatgcagga	gccagggctt	ggcatggggc	aggtgtgggg	gatgcagagc	3480
agggccagca	ggcaggatgt	gctgatgggg	gcctggcgtg	agcaggacgg	tgccctccag	3540
ccctgagccg	cagggaagtg	gccaccagga	ctggctgggg	gccggggtag	ggaggggcct	3600
ggggagggtg	gacatctgtg	tgggtcttga	acataggatg	cccatccgat	gtgcaggggc	3660
agctattggt	tgggcagtgg	ggacatggcc	tggggctctg	gtgggcatg	gcctggaggg	3720
gccaccctga	gcaggacatt	tggaggagtg	ctgggggtgag	tcagacagga	ccatgtggtg	3780
gttttctcca	gtgcaggcag	tggaggggga	aggcggagct	ttgcaggatg	gggcttgagg	3840
cagttccgac	ttcagactcc	cccccaggga	gactgaggga	ccaccacat	cattactcag	3900
gccaaggagg	cccagaacag	ggcagacggg	gctgcaagag	ttcctatggc	gatagttggt	3960
ggggcacagg	gttggtcgga	tttgagggag	ggagggtatg	aatctgggag	tcgttggtgc	4020
ggttgtaccc	accttcactt	tccgtcccca	ggctgcgcct	ctcctgagct	gccgcattct	4080
cccctgcacc	tgtgctctg	gccctcttca	cgctctcctg	gcctgctgtc	tgccctctcc	4140
ctgcacctgt	gcgtctgtcc	ctcttcatgt	cctccttgcc	tgctgtctgc	ctgttctcag	4200

US33026.ST25.txt

agccccctcag	ccctcaggcc	ttcatctctc	ctggcccatc	ttcctactct	gacgctgaca	4260
tgtagtaaaa	gtctgaagac	agagaagagt	gcatgtgcgt	ttagcatagg	aggggcagct	4320
ttcagtcagt	gcagcaaggg	catgtagttg	ttcagagatg	gtgctggaac		4370

<210> 45
 <211> 3550
 <212> DNA
 <213> Homo sapiens

<400> 45						
ggtaagggag	atgagacctc	cagacaacca	ggaagagggtg	agaatacctc	cagacctcag	60
ggggttgaga	tgagaacttt	ggacaccag	aatagaggag	atctcatgat	actctagcag	120
aggagatgaa	agctccatgc	catttagaca	gggatatgag	actatattca	agtagagggt	180
aggacatgcc	ctggcaccca	gatgggggca	atgagatctc	ccaacactct	ggtataccgg	240
tggagacttc	agaacattca	tataggtaaa	atacaacctc	ttgacattca	gctggaagat	300
gtaagacctc	ttgattttca	ggtagagaaa	gtgcgacagg	gtgacacttg	ggtgggtggag	360
gtgagaattc	ttaacctgta	ggtggaggcg	atgagggcct	ctggcactga	agtggaaaaa	420
cagagttgtt	atttctttca	aagaaggagg	tgatcactcc	ctgatactgg	gtaagatata	480
cgagacctat	tgaacattca	tttgaggatg	tcataagtac	gacattcagt	tagagaaaat	540
agataaatca	agatcatctg	ataatctgaa	aactcaacac	tcaggaatag	gagatgagat	600
gtcctgacac	tcagggttga	ggcatgggac	cttctgacac	ccacttagat	gatgtgcaac	660
ctattgacct	tcgggctggg	tgagatctta	cattcaggta	gaagaggtaa	ggctgccctc	720
atgcaggtaa	gagtgtgacc	tcctgacact	tgcaggcgat	gggaaatgtt	ttaacattca	780
ggtgtttgca	ataagcattt	gtcacactct	ggtagggtgag	atgctagtcc	ctgatgatca	840
gatgggaaaa	atgatgcttc	atgatattca	ggtagctgta	tgaaaactct	tgacattcaa	900
gtataggaga	aaacaccttg	ctccacctca	gtcacagaaa	gccgatctgg	agacattcag	960
gataatagga	gaccttgtga	tattcagcaa	cggacaggaa	ggtgggcttt	gcagttgtaa	1020
attaggaaaa	ttcaaaatga	ctcttgga	agtgtgttga	tagcattcac	ttggaagagg	1080
aaaagaaaac	ttccccaaca	acaattaagg	atcaattaat	ctgctgacct	tgactcctct	1140
gatccacaaa	catgttgcac	cgtctcatca	ctgaagggct	gagccgctcc	tcagtctgtg	1200
agtctgcagt	ggtcacagca	cgcatgagag	gcagactctg	aacctgcaca	aagccagagc	1260
cttgggtgat	gtggggacct	cgcaagagtt	actgggaatg	gagatcctgg	ccttgggaca	1320
gagggagtgg	ggctgcacag	gagtcacca	tcaccttgtt	ggtgggggag	cctatgcagg	1380
aagtcaagaa	gtctcttcag	cacaaaccag	ttaaggcgag	gggctcttac	ctggcctgac	1440
tgctgggggt	ggggtggggg	tcaccctgc	tgattggcca	ggcagccacg	gagctttgtg	1500

aggtcactag	gcttgcaggc	caggcagtg	caggagtatg	gttgagatgc	taccaactgc	1560
cattctgctg	gtcttggcag	tgtccgtggt	tgctaaagat	aacgccacgt	gtgagtaagt	1620
gtcggggcac	cttgggtggg	gaaggatctt	ctgaggagca	ggtaccaccc	cgactccctc	1680
tgtccagggc	tagggaaaag	gaggctgcat	ccctaacctg	gacccccct	gctcccagaa	1740
tcagcagcct	ggagcccca	gaccctcagc	tttcgtgggt	tcctccagag	atggaccct	1800
cagcacctca	ggctccttgt	gcctctcca	ctccccagg	gactgacccc	actgtcttga	1860
agacatgaag	tcctgatttt	gggagccctt	atccccccac	agacagctgt	cccaaccctg	1920
ggttgccccc	aacagcccca	ggatatcatc	gcttcacacc	gcttgacccc	ctacccccca	1980
gtaggctctc	tactccaag	gtaccccgaa	ataccaacac	ctccaagct	atatgtggcc	2040
tccccccgt	gacacagttc	ccagagcctc	cacctctaga	cctccactgc	tctcagtgtg	2100
ccccctacac	ctgtgggcca	cagtatctgc	ccctggctgc	tatccctcct	cccatcactg	2160
tcaacgaccc	ccttcacac	ctgacttccc	tgagtctccc	accaagatt	ggttataagg	2220
acctcaggcc	attacacccc	tctgtcccca	ggccccgc	ccccacctct	accctcctgt	2280
tctgcccagg	gacgggcat	ccctcagggc	ccatgcagcc	tgctctggct	tcctatggcc	2340
tcctctttct	ccatctgtga	ctgcaccac	aagacctgag	aagtcgtggc	cccagaacca	2400
tttcctagag	cctgcggctt	cctacatagc	gcaggctgcc	cctgctttcc	cagaaccg	2460
aagctcttcc	ccacttttcc	caaccccatg	tcctgcctc	ccctcagttg	tggagttaca	2520
aggacaggct	gtgctcatgc	caggtttgaa	ctgtgctctg	gtctctcccc	agtggcccct	2580
gtgggttacg	gttcaggcaa	aaccacagg	gtggtgtccg	catcgtcggc	gggaaggctg	2640
cacagcatgg	ggcctggccc	tggatggtca	gcctccagat	cttcacgtac	aacagccaca	2700
ggtaccacac	atgtggaggc	agcttgctga	attcacgatg	ggtgctcact	gctgctcact	2760
gcttcgtcgg	caaaaagtac	gtgtagggat	gactgaggg	aggtcttcag	aacggctctt	2820
ctcagagagg	ggcgttcccc	gggatgctg	tgcagcgtct	ccctggggct	ctgggccaag	2880
tggctgcaag	actccggggg	ctggtccaga	cctttgctag	gggaaggccc	tgagggtcgc	2940
tgtcaccagg	cttttgtcca	gccggttg	acctggctta	cctttgtgcc	cacagtaatg	3000
tgcatgactg	gagactgggt	ttcggagcaa	aggaaattac	atatgggaac	aataaaccag	3060
taaaggcgcc	tctgcaagag	agatatgtgg	agaaaatcat	cattcatgaa	aaatacaact	3120
ctgcgacaga	gggaaatgac	attgccctcg	tggagatcac	ccctccatt	tcgtgtgggc	3180
gcttcattgg	gccgggctgc	ctgccccact	ttaaggcagg	cctccccaga	ggctcccaga	3240
gctgctgggt	ggccggctgg	ggatatatag	aagagaaagg	tgagtatggg	agcgcctcca	3300
aggggggacg	ctgctggcca	ttctcctgg	ggtctttgag	gtgcagcgg	cacttggtga	3360
caccagcca	ggctgctttc	atcctcctca	cggcgctaca	cgtagagcca	tcactgtggc	3420

US33026.ST25.txt

cttccacagt	cccctgtgcc	aggtcacgtg	atgggtgact	cgtctggctg	tctacggggg	3480
ggctgacagc	aggtgcaggc	agagcgcagc	gttgcttaga	atgggggttg	ggctgtgtct	3540
gtatttggca						3550

<210> 46
 <211> 2653
 <212> DNA
 <213> Homo sapiens

<400> 46						
aaagacaatg	caaaaaacac	tttcatggt	taggagcctg	ctgtagtcag	gcttcatttt	60
aaaaaattac	ttctgccaaa	tctctgccag	ttttataaaa	atttctctaa	aactcctcta	120
aaatacctga	taatagagaa	ttccagaatg	aggagagaga	taattatfff	ctttttctcc	180
atattctctg	ctcctaaaaa	tagacaagtc	tcctgttgga	tcctcttggt	ggcctttgca	240
catccactag	tggtttagtt	tgtgttttgg	acaagatgct	gttcctccct	tatgtgaacc	300
tgagccagtt	tctaactgtc	tctcccccta	tattcctcac	tgggtgaaga	aacagggttg	360
tggtgcaaat	gaaataaggc	ttgggattca	aactgttcag	catgatgatt	gggtgcatagc	420
aggcatcttt	cagtcttagc	tattgatgga	tcattctctgc	tttcaacatt	cttggtttttg	480
ttatgattac	ttaaaaagta	ttagttcatt	atttcagtga	attaatacac	ttaacattga	540
tcagggcact	agaagattca	aactaaatga	caatctatft	ctattagtct	ctcttaagtg	600
atttactatg	tgcaaattgc	tgagagtatt	aattttatgt	cagtgcattt	atattgctga	660
ttatttttga	aagcagacat	ttgattgtct	ttatttgctc	ttttattgca	tccactttct	720
ttaaactcaa	tgatagtftg	aaatagaaaa	ttatggagaa	gaatcatcag	aatcttcacc	780
ccaggactta	attccaatcc	attcaaaaat	aaatgtcaaa	ttatttaatg	gatttaaatg	840
ttgaagccct	aatcaacta	ctgccctatg	atggttgagg	gttctgtaaa	caaaccatg	900
acatccttga	catttcagaa	gacagataac	cccatctftt	tctcaggagg	gaaaactftt	960
acaccaacgg	ctcctaataa	ctaaatggaa	gaccaaacca	tgtaggagc	ctccgaaatt	1020
cagaatctat	ggattatttc	tggaatcc	acctgcttat	ggcccatgaa	ctacatagaa	1080
atcccctgcc	cccatttgta	tatagaaatg	tgctgctaata	aagaagagaa	agagctagat	1140
ctttcctgat	gagtgttccc	cacacaaggg	ccttttagtgg	tcaaaattag	ggcttttata	1200
gctgcagtgg	cagaaaatgc	atacaaataa	cacatttgtc	acctagatgg	tcaattaaat	1260
actcacatga	ggtcagtga	aaactgttta	caaacagca	ccaattgcaa	cttgtgagac	1320
ctgagactac	aggactcagt	gatattttta	ggattaaatt	ataatcaata	catgcatttc	1380
ttaagtfttg	caccccttg	aatgtcaact	acatatgttt	ttaattccac	aaatatttga	1440
tgtcactgac	tgcgctaaga	gaacaagaag	atgaaggaaa	tgcataaagt	attaattgaa	1500

US33026.ST25.txt

ctgagcctta	aaaatagcta	caaaatacat	attagttcaa	acactcatta	aaatgagaag	1560
agttaaattc	agagaacgac	atltcccagt	tatgatcaca	ctccccagtg	caaggtgttc	1620
tatagcaatg	tttgccctaac	ggcatttggt	tgatatctga	gcactagccc	ataagaatgt	1680
tactattgtc	actttctaaaa	ggtaagcttt	aaaataaagg	attggcagga	taatgccttg	1740
agatgccttc	agtttcatga	ctcaggacaa	tacatatcta	cctgaagaga	cagcctgcct	1800
gaggctgtga	gggcttcaaa	ggccctaaga	ccgtcagagc	cacaggacac	agagacagca	1860
tgagggtcaaa	ggctgaccca	gggtgagtg	tgactgtata	gaaagagttt	aacactggcc	1920
cagaacagtg	tgaagagaag	tttattagcc	ctaaaaagaa	gaagatccag	gtggcgctcc	1980
tctagagcac	aggtaatltt	agtctgaaac	taaggagaga	tcatgttaaa	ataagcaaga	2040
gaaatgtgtt	gggcaatgtt	catgactgca	atgcatgagt	aaggatcttg	gcacacaagt	2100
taaactccct	tattttgttt	tgagcagaaa	catcatttag	caagtgccaa	ctctgacagt	2160
tttctttgaa	gaatgtcctg	gaacgtccca	tgctagttag	cataatgact	gaaataggat	2220
accacaaaat	taagcaatga	gagaggaggg	gatattctga	tgaaaagtgg	tcaaaactaa	2280
gggtgaaatg	tttttcagaa	taaatgacat	aagattttat	gggaaaattc	tggtgactta	2340
gaaatattat	ctgcattaca	aacagaggag	aaggatcaca	tcatctattc	tgataaaaag	2400
aagggttcacc	tgccaacatt	taaataattc	aaattttatg	gacagttcta	ggtttctgga	2460
atgtgggaag	acccttttat	tctttcaa	tgtccaatta	acaccaaagt	cttcataat	2520
catcataatc	atcatcatca	ttaatgttat	tgactgctta	ccacataact	aggcacagtg	2580
catttgatat	aactatttat	ttctcatcat	cagccacctt	ctgtagctct	ctgaatatac	2640
ctatatcagg	cag					2653

<210> 47
 <211> 2093
 <212> DNA
 <213> Homo sapiens

<400>	47					
ttgtgataca	ccattcactc	accatgtgac	tgcttacaaa	gagggaaaaa	atatggagcc	60
ctctgttcca	agggaacact	cctttccccc	tcccgacact	tcctagagat	cttagacca	120
catgactgtg	agaaagaaga	gtgatgtgag	agtgaacttt	ggcaaggctg	aagtgccttg	180
gttttgtctg	gagcgagaat	aaaagtgaga	ggaaggaggc	gtccagttgg	ctgagaatac	240
tgttggctaa	gattcttttag	cagggtgggc	ttttcggatg	cttttctcct	ctgatctatt	300
taggtttatc	cttactcttt	tccattttatc	tgggaagtga	cttgggttta	agagaaccag	360
gagtatctta	gcagagtcaa	aagggccacg	gtgaacccca	aatgtcagga	aacaaggaac	420
tgactagatt	actcaaggct	tcactcttga	ggaggggagag	aaaagagctc	ctgcatttcc	480

US33026.ST25.txt

ttctatttat	tgattacagc	cacaaatgga	aaaggaagca	ggctttctgc	cctgaaataa	540
tgatgataca	tcgggctgca	gagctcctat	acctataact	ctcaaaagca	aatggaaagg	600
agactagcgt	gtggctagta	ccattattct	cacatcttcc	tgcagtgtta	tgagagcaca	660
gagtaggatg	cagggtgagg	atagacagca	gtagagcttt	cttgagctgc	ttattcctct	720
ccaaattctc	tctgaaagtg	gatgaagaac	tgctgccatg	tctgggtgtg	gttcaatttg	780
tgctctcatt	gcttctactt	ctctgtttct	ccagatccta	ccatcacgtt	cttccttctg	840
tggttagcc	atcttctct	ccacgcttag	gaaccataca	tactatcatt	cttctacctc	900
tgaagcatta	tcccatcctt	ctgacaaaca	tgagtagatg	ttttcccctc	acagtcttgc	960
caaaaagcac	ttataaagta	ttgcaccgta	gttttcatat	ttcaaaaaca	cttcaacagg	1020
caaaatgcga	tatacacaac	cccaaaatgc	tgtgctatga	tgaatttagt	tctgtatttg	1080
taatactata	aattgctttt	gaatgaaaga	tacaatgtct	atatattatt	taatttgata	1140
cttgtagtaa	ctagctattt	aagcaagata	ggatcagtc	ctctttagcg	aagttcagtg	1200
gaaccaatgg	aacaaacgtg	tgggagtgg	actggaactc	ggatgtctga	ttttgtctta	1260
agttatttta	atgacaagtc	atttagccac	cgataaaaag	ttacttattc	agaaaattca	1320
atcttctgga	caagttttat	ttttacatga	cataacctaa	aatgttatat	atgttaaatt	1380
ctgccgtttt	agatttcagg	aaaacaaatg	cagagtggta	gaggctgggtg	gtgagaatga	1440
gctgagaagg	gtggtaataa	actgagggtt	ctacaacgag	tttgcattaa	aaaaaacttg	1500
ttgggggttc	tggaacccaa	tcaattctca	gatgtttcca	tagtctatct	ttatatagca	1560
taatacatct	ttattatgat	caggcaataa	agcaagactg	ttcaccagtc	ttgcttttagc	1620
catttaccat	ttcctatact	ctatgtatgt	cctttgtctg	cttttacct	accataaagc	1680
ctgcttcaac	ttcccctca	atacactgag	atttatctct	tcactcacca	ttctggaaaa	1740
ttccttggtc	agccttctaa	tcactagaca	cctgcaacct	ttccttctct	ggatttctgc	1800
ctcgaacagt	cactcttctc	cactaagatc	tacatgtcac	cgctaaaatc	ccctttcttg	1860
cttgtcactt	tgaccatgat	gtcacttact	tcctgaaaat	ttcccctggc	tccttactgc	1920
tttgaggcc	aagtaactgt	cacatttcgt	ttccactttc	agctggagtc	agccttcatt	1980
attcccctct	ccgtccctgt	atccttagag	accctctcct	ttgactcaac	agctcactgc	2040
tcttgtcttc	tcaaagctcc	tgtcttttca	cacacagttc	ctgctgtctt	ttg	2093

<210> 48
 <211> 2953
 <212> DNA
 <213> Homo sapiens

<400> 48	gtggtaaagt	cacatctatc	cctctcctgt	ccaggcatgt	ggggcctcgt	taacaatgcc	60
----------	------------	------------	------------	------------	------------	------------	----

US33026.ST25.txt

ggcatctcaa	cgttcgggga	ggtggagttc	accagcctgg	agacctacaa	gcaggtggca	120
gaagtgaacc	tttggggcac	agtgcggatg	acgaaatcct	ttctccccct	catccgaagg	180
gccaaaggtg	agtgggaaag	ggagctccct	cctgcccctg	aacctgcccc	acgtgttcat	240
ctttgctcag	aatggaaata	cctgtcccag	cagctccaat	gtccacaact	cagcagaggt	300
gagctcgtga	atcccagggg	ctatgctggg	cctgggggtga	tgggtgggcag	aggggctgtg	360
gccgggtagg	ggaggaggaa	gcagagcagg	taagaggtca	gtggtccatg	cagcaaaagc	420
ttaaagagtt	gagcagccat	ccactctgca	cacctaatct	atagagagaa	tcaccctttg	480
cacaaagctg	tgtgtacaca	tctttgtatc	agtcagggtg	ggtagtaaa	atctggcata	540
ttcattctat	gggttattta	tatcgtagtt	taaaaaatga	gatcattgtg	gtattaggga	600
acgatagtaa	aatcaagat	tagaaatttg	gaaaaccaac	aaaacacca	aaccatgtgg	660
gtggccaaat	gtgagcaaac	cacttttaga	gtcattgact	tggatttttt	tctctggcat	720
agcaaacaat	tgtggcaaaa	agggtaagat	ccatacatct	atggtgaagt	cctagcaaca	780
acaagcatga	acacagactg	cagctgtagg	atttttagatg	gaaaccccaa	cccttcagtg	840
acttcaaatt	tagagctttc	tgaaagggtc	ctcccccagg	atgggctgag	ttccctcccg	900
gggacacacc	tggatgggct	gagtgccttc	ccggggacac	acctggatgg	gctgagtgcc	960
ctcccggggg	cacacctgga	tgggctgagt	gccctcccgg	gggcacacct	ggatgggctg	1020
agggccctcc	cgggggcaca	cctggatggg	ctgagtgcc	tcccgggggc	acacctggat	1080
gggctgagtg	ccctcccggg	ggcacacctg	gatgggctga	gtgccctccc	cgggacacac	1140
ctggatgggc	tgagttccct	cccaggaaaa	ctgggtcccag	atccgcctcg	gcttcccggg	1200
ctgggcaaaa	tgcaatccac	ttccaacccc	tctgttccca	gggccaggag	gagctgtggg	1260
aggcccctga	tgcccccagg	ctgggcctgt	ggcctttgga	gggggatcac	cacactctcc	1320
cagtgccag	gactctctcc	tcatactcta	gccctgaagt	caggttcaga	aatcctgccc	1380
ctgcccctgc	ctgctgctct	gtttgccagg	cggtcctggt	ctccaccag	gctccaccct	1440
accagggtgg	aatggagttg	gggagttggg	cctaacagca	cgggtcctgt	cctctttcag	1500
ggctgtcccg	gggctccctc	ccagctgcag	ccccaggtag	ttcctcgtct	gcactccaac	1560
ccccatcgcc	agggtgctg	tcagtggcta	gacacttggc	cctagtgtgc	tacttatctg	1620
cacgtcgtac	tactggagct	ggactttaag	ctccataagg	ggaaggggaa	gctttcaggc	1680
tgtattttct	cctcaccagc	accagacctt	gcctatagtg	aaagctcaga	tccacacaga	1740
cagctgtctc	gcctcccact	tctcccctcg	tgttttcacc	ccaaattatc	accgcatcgg	1800
gcttgatctg	gtttttgagt	cagttgcgtg	ttgcccatta	cactgtgccc	tgctgcttct	1860
cactcacttg	tcctcccctg	tcctgcctgg	cacagccagg	ttcccaggga	agaccagggg	1920

US33026.ST25.txt

tgccgatgct	gatgcgtggg	cctgagctgg	ccttgccctat	tgactgagaa	ggctcctggg	1980
tggctcagaa	gtggttccag	ccaagcctct	agagacatgc	cagacttctg	cccgtgtgt	2040
catagggcag	taacggctta	gcaggtacct	ctgtctccct	ctgtaggccg	cgtcgtcaat	2100
atcagcagca	tgctgggccg	catggccaac	ccggcccgt	ccccgtactg	catcaccaag	2160
ttcggggtag	aggctttctc	ggactgcctg	cgctatgaga	tgtaccccct	gggcgtgaag	2220
gtcagcgtgg	tggagcccgg	caacttcac	gctgccacca	gcctttacag	ccctgagagc	2280
attcaggcca	tcgccaagaa	gatgtgggag	gagctgcctg	aggtcgtgcg	caaggactac	2340
ggcaagaagt	actttgatga	aaagatcgcc	aagatggaga	cctactgcag	cagtggctcc	2400
acagacacgt	cccctgtcat	cgatgctgtc	acacacgccc	tgaccgccac	caccccctac	2460
acccgctacc	accccatgga	ctactactgg	tggctgcgaa	tgagatcat	gaccacttg	2520
cctggagcca	tctccgacat	gatctacatc	cgctgaagag	tctcgtgtg	gcctctgtca	2580
gggatccctg	gtggaagggg	aggggagggg	ggaaccata	tagtcaactc	ttgattatcc	2640
acgtgtggat	tatccaccat	gccaggaaga	cccataactg	gttttaacac	taactagagg	2700
gaatgacttc	tttgcatagt	gagtgacttg	ggccttcaca	aacagggtgt	ggagtggcag	2760
gcagaggcct	ctaaatctca	gggcaaacat	ggtgaatcta	tctctccgga	gataatttca	2820
tacagagatt	ttaagaaaac	atctttatat	taaaaacaga	tctcatttga	tccttaagcc	2880
agtctcatga	atgaaaagga	cagggttttt	tcttttgtaa	atgaagcatt	tgagcttaa	2940
agaggatgca	tga					2953

<210> 49
 <211> 1834
 <212> DNA
 <213> Homo sapiens

<400> 49	
tgtgttatcg	cagcaatttt
ataatggctc	attaaccctt
gtgagaggcc	agtaatatgg
gatagcaacg	gatttctatc
aactccatga	gggagataag
taagggtggca	tcttatgtag
atcttctaaat	cctctacttt
gaaatcagct	caatggcata
ttttaaactc	aaaatagaat
gtcttctggg	tcctaattgg
tgatttaaatg	gtggatttga
ccatatgtgt	atcagatgta
aaaagtattg	tccactaagt
ggagtaaaaa	atgatctttt
acagaaggaa	aaaaaaactg
atttaaatct	ttagattctc
atgggatctc	attaagggtc
tctttcttta	atacattgtg
cagcctaata	gttatcagca
gccctgcggg	gtgcattgct
gatagggttag	tttacacagg
attaattgtg	taattttgca
agcaaccagc	acagtgaaca
ctgatttttg	cattagcccc
atgtgttggt	tccaagggga
ctctgctttc	tatttttaagg
tgggtgttaca	tttcacttct
tattaattat	aatttctgct
agcatgtttt	atgcccaata
tgatttatta	aaaatccttc

US33026.ST25.txt

ataatgtttt	tttcctaatt	gttatgtcct	tcggtaactt	cattaatttt	gagcactgat	660
gtgtaaaaaa	tggcaggaga	aaatggcatt	cacagaaggt	tctctgacca	gccagtttcc	720
ccatgcccc	gttgataagt	tgccacaaat	cttttgctaa	aatacagaca	caaattcagt	780
tgcagccact	ccaggtatgc	gaagtgaata	atcagtgcag	gcaacaacct	gacaatacta	840
cattcctcaa	acaaaaagaa	tgcgaatggt	caaagaagtg	ttggctaagc	agaactcagt	900
ccattttcca	caatacgtag	cttagtattt	tccagaaata	cttgtgtatt	cggaagaatt	960
agaggaagga	aacttttggt	tgaattttcc	acataatagc	ttagttcaat	actcagctac	1020
tacattttat	cgactcttgg	tgggattatg	aaatgcctat	tgaggtttca	gtggaatctt	1080
tatagctgga	cttgatattc	ttttacatgg	ttttgaaaaa	acaaaacaaa	acaaaatggt	1140
gactgtgcac	agtttagaac	ttaatcttta	aattcttttt	gccttgaact	tgaaaatcaa	1200
ttatctgtct	gtgccccacc	acctcttccc	tcatctcagc	cttcacgaga	taaaatttct	1260
ctccctccgg	agcacatggt	ctctcaaagg	ggaagagtca	catctccttg	tctgtgcagc	1320
tgttgcttcg	ttttgtttag	ggtggatctt	ctctccttat	ccccgtgagt	ttctatagta	1380
ttataaaggc	ccaataaggt	tctgtacaaa	gtgggtactt	aaaatgtgtc	ctgagtgaca	1440
aactggcccc	cactggaaga	actcttttaa	acactctggt	accagagctt	caaaaagggc	1500
ttgtttctga	aggatcaaag	gatctcttgt	ataataaatt	ctgagcattc	agtacataat	1560
gaagagaaga	aaacatgtct	tttaagctcc	tatatgatgc	ctggattatg	tgaagagatg	1620
aaggaagtgg	tgactctttc	tggcttttgt	gtcattcaca	ttaaacagga	atagatgaaa	1680
gcaaaggctt	aacactgaca	aatcccaag	taggcaggct	ctgcatccac	agcctgttca	1740
cacattcata	acaaaccacc	agctgatgac	ttgaaaaaaa	tatgattttc	tttctagtga	1800
aagactgact	ttgttttgtg	ttttgtgcct	tttt			1834

<210> 50
 <211> 2426
 <212> DNA
 <213> Homo sapiens

<400> 50	
ctgactcaag	aactgtagca ttgagtgtaa ggggtgcatca ttttcataaa cacagaggaa 60
aatgtggctg	gtggctgatg gcagagctga gtccccgagag ctgagccctg agctgccttt 120
catctggtca	ccatgttcag gggttcttct ccatgtaaat aaacatctgt gatgaaaacc 180
tccacaggtc	tcatcatcaa agtgggtctt ctagaaacca atttgctttc aaaacaagag 240
atcgagtgat	aatctatcta atgttctaga aatgttggag gcaccctaga caaatgtcaa 300
tcttaaagtt	ttccttttgc cttattttctc taagtaacac cttctcaaat catgaaagca 360
agagtgatct	aaattttttt taaaaaatcc atattagaag gaagatctat taaggatcta 420

gtgagtaa	at	gacactttt	g	gaatgttt	ag	aacttcaagg	gggaaaccac	atgttttcac	480
atccccactat	atcattttcca	taaggatgag	g	aaaaagcagt	acccctattt	gcagaagaga		540	
gactgccgtg	aagtcagtg	g	acactatctc	caggtcagaa	tccaacctaa	aggcctttaa		600	
tcaatggtaa	gtgctctgag	g	cacaaaaatc	ctatgctcct	catcagtc	at	gctttatgtc	660	
ctctgaatat	tctgaattca	ccagaacct	a	gtagacctat	tttaagtttc	tccaaaaatg		720	
tcaaaactct	gttttataga	aaaccagaac	t	ttcatgtca	agtgttcctg	agaacattaa		780	
taacaaaagc	caaaacaagt	ttcttaaagt	ctgtcagcca	gttctgtaaa	tatgacacaa			840	
gtaaaactct	ctggacatca	tttagatatt	aacgtaacat	gcataagcta	gaaaaggcag			900	
cattaaattt	ggatgttttt	gacttttg	tt	tctcaacttt	ttaaagatta	aatcatggga		960	
ttttattctc	ttctattccc	tctagggaaa	g	caatgtgct	gatatttttc	tgaaagatgc		1020	
taacagtgga	aggaactatt	gaaaacaatt	aggggaaaat	cgcacctga	acttagtaga			1080	
acgtgtacac	catgttctca	caggaaatct	cagacatgat	attaaaaatt	ccagtgtgtt			1140	
catttttttg	cagaacagtc	tgtagttag	t	actgtgcagg	gggcacacag			1200	
ggcataccaa	aggcttcttt	tgtttatgat	acagattccc	actgtactcg	gaaggttttc			1260	
tttcaaatgc	ctcatcacag	tgtgtccaaa	cttctttag	ggagcaacag	ggcctctatt			1320	
taagcctctt	gttagccgat	ccaccagcca	aggatcatgtt	gctttccctt	aagaatcaga			1380	
gccccgggga	tcctgttcta	tctgttcttt	ccgccgcctc	ctgtctttca	gcagggcaga			1440	
tgccctcccag	aagtaaacca	gatgccagga	ctgtggggga	ctcttgagca	gcatcagcca			1500	
aactgtagga	gctgagaaga	ggaagctttg	ctcagggttaa	gcgccctggg	ataatgtctt			1560	
taatgtcaag	aggatgcaca	ctggaaacgt	ggaaagccct	ccaggctgaa	agaggggagtc			1620	
acacaggtgg	ggagtgttgc	caagcatttg	cgagcactct	cttcgggtggg	cagacagccg			1680	
gcttgctcat	gattccgcct	tttctgttat	tgtcaacaag	ccgccactgg	aaatttgtat			1740	
ccttaaggct	ttgaggctct	gcctcaggtg	gggggtcccgg	aataagctca	ttaagttttt			1800	
gcctcattac	ctccaggctc	caaatacactg	gtacaaattt	ctcagtctga	cttaatgtct			1860	
agggaaatgt	cgtatttttg	gacccttcat	tttaaaaaag	tatatatatt	taccagtgtc			1920	
atctccgcca	attccgaata	aaccttagac	ttcagggtcat	gagtcactag	gagtcctgaat			1980	
atgtctttta	tttggtattca	aataagattt	taacttcctg	gcaccatggg	tttctgaagg			2040	
tgccagtgtg	agacctgggt	catcagaatg	acttggtgct	gggaagccac	agaatgggtgc			2100	
agtaagatct	tgctgtctcg	gtttctgcct	tagaaacaat	atcatacacc	ctctctcatt			2160	
tcacagaatg	ctaaaattta	gcataatgta	tagtatttat	tgacaataat	aaggcaggat			2220	
agcaaagtgg	ttaaggaatg	actacactca	acaaccataa	cctcctatcg	tgccaggggac			2280	
ggcaggcaaa	taccatgcac	ggaagtcagt	gtcagcagag	atcagcgggc	attctcagaa			2340	

US33026.ST25.txt

cactgtggga actaagggtc tgagccatca ggactgtcca cagatattcc actccttctg	2400
ctcatataat atgcttgcac tccccca	2426

<210> 51
 <211> 1796
 <212> DNA
 <213> Homo sapiens

<400> 51	
taaacctttg ttactgtaaa ccaacaccct ctccagggaa gtttcctatg tccctcctac	60
atttacacat caaagccata atctgagtag tgatctctct aataatcatt gcattaacag	120
ttgctcttaa caagcatctc aatttggtccc tattctgaac catgcagcct aatgttctct	180
ggtcattact catactcttt tgttggtgtt gttgcactct gcaggcaact ccacaactac	240
taaactctac caattcttcc tatgcctcaa acctgttagc tagtcatgaa ttcctcttca	300
ttcaggggtg gaatggccta cttggccaca atacaagaat gggcaacttc tcaagcccaa	360
cttagcttca cctatcatca ggacctctct atacaaaac cttccctctg ctaacataat	420
atttttaata caacctaaag cagcttttaa agattttctt aaaccacccc ccattgattc	480
aagccccttg ttctcccctg ctaccctcat tggccaggca ctctataca tctgtgctac	540
tgtaaatcc agatccattg tgggtgcttt agaccagca caatgcaaca caacaagcac	600
cattattgat atttctcaaa attttgtttc actaaatatt ctcaacatca aatgagattt	660
tctattctcc ctccaaatgt tttaacacct ggaccattca tccaaaatga tgcctctgag	720
ttctgctca gtcacccttc ttggagtcaa cccaacccat ggtgttgacc aagccagtat	780
aaattatgca aaaggtttca agtctttaat ttctttcaga aaatcctttt ctttgacact	840
actagaaaca tgcctatggt taaaaaaaaa aaaataggac ccatgtctgg ctcccctggc	900
agcagcaact ttagtggcag gatctcacat gtcgggtagc caacaaggac cctgggtcaat	960
gtttggaact gacctcacct tctgcatcca tttttatcga ctacagaact ttacttcctg	1020
tgtgaaatgc aggcttatct ctgtctctct ggaaacttga cgagcacaag cactctggct	1080
tccttcaccc ctaacatttc cattgtcccg gttgatgctt ccttgctgtt accctttact	1140
acctcacacc agatcgacta agcagtttat cttttttttt tttttttcct gagtttggca	1200
tctcaggtgc cactatagga atagctggca taattattgc ctctcaact taccaaaacc	1260
tgtctctgga actgactcac aaaataaaaa ctactgtcga gactcttaca gagtgacacc	1320
aacaagtga ttatctcgtg gctgtagttt gaaattgtag aggtcttgct gcagctcagg	1380
aaagaatctg cttatgcta ggagaaaaat gctgtttctg ggtaacaga ttagggaaag	1440
tccaggacca tgtagaggt tttacaaacc aggcctgtca ccatcagaaa catgccactg	1500
aaagctagtt ctcttggggt gccacttggc tccaattctc atgacatccc actttttggg	1560

US33026.ST25.txt

gatccctagc	ctttgtcttc	ctttctctct	tttgtgagcc	ttgctcacta	aatctagtaa	1620
ccagggttcgt	ttcctctcac	ctagaaactc	tcagacttca	aatggctcctg	caacaggaat	1680
atcgacctat	tttcccccaa	tctgcacagc	catgtcccta	cacatttcct	ctggacaatg	1740
caagttcaac	cttctgggag	aacatggatg	gaatcttttt	ctgacaaaaa	gcaaga	1796

<210> 52
 <211> 2633
 <212> DNA
 <213> Homo sapiens

<400> 52	acactgtgta	aattacaagc	catgaccccc	tacattctta	cattcataag	gtatttcttc	60
	catttgagtt	cggagagact	tggtaaagctc	tgcttgctac	agaggcatcc	tcctcctgcc	120
	cccatccagg	gcattccctc	cctcataggt	tctcttctgg	gatgtgccac	tataacttcc	180
	cacatatatc	acattttaaag	attcctctcc	agtatgggtt	cttttatgct	tggtgagatt	240
	tgatctgata	ttaaaagcct	taccacactc	attacatcgg	tatggcttct	ttccagtgtg	300
	gatccttttg	tgctgggtcaa	ggactgatct	ataattgaag	gatttcccac	actcacaatt	360
	atagggctgc	ttcccctggt	ggacactttt	atgattgata	agacttgagt	gtgagatgta	420
	tgcttccca	cactcatcac	attcataggg	tttctcacct	gtgtggatcc	ttttatgcac	480
	tgtgaggcct	gagctgttcc	tgaaggcctt	cccacaccta	tcacacacat	agggtttctc	540
	ccctgtgtgg	atcctcttgt	gctgagaaaag	gagagagctg	taactgaaag	atttcccaca	600
	ctcaacacac	ttgaagggtt	tctccccaaag	atggactctt	ttatggctta	taagagttct	660
	gcttgagaaa	aaagcttttc	cacattcatc	acatgtatgg	ggtgtcctgc	caggggtgggt	720
	actcttatgg	ttaataaggc	ttgagtgtga	gatgtaggct	ttccacaca	catcacattc	780
	atagggcctc	tcccagtat	ggattctttt	atgaacttta	aggcttgagt	tgtttctgaa	840
	gaccttctca	cacctgtcac	attcataggg	tttctctcta	gtgtggaccc	ttctgtgctg	900
	agaaaggagc	gatgtgtaat	taaaagattt	ctcacacaca	tcacatttgt	agggcttctc	960
	cccaagatga	acttttttgt	ggtttgtaag	ggttcggtat	gtgatgaagg	ccttctcaca	1020
	ctcgtcacac	ttaaagggtc	tctcccaggg	gtgtacactt	ttatgattta	taaggctcga	1080
	gagagagatg	tatgctttcc	cacattcttc	acatttgtaa	ggtcgttccc	cagtgtggat	1140
	tcgtttatgt	actttaaggc	cagaattatt	tctgaaagct	ttaccacact	catcacaccc	1200
	aaagggtttt	tccctggtat	gaatcctttt	atgctgttca	agggcagagc	tgtagttgaa	1260
	ggatttctca	caatagctac	atttataggg	cttctcccca	aggtggattc	ctttgtgatt	1320
	tttaaggcta	gagcgtgaga	tataggcttt	cccacacaca	tcacacttat	atgggttttc	1380
	cccagtatgg	agcctcctgt	ggactttgag	gcctgcattg	tttctgaacg	ttttcccaca	1440

US33026.ST25.txt

cacatcacat	acataagggtc	tctctccggt	atgaatagtt	ctgtgttgaa	gaagtagtga	1500
gttataacta	aaggatttcc	cacactcctt	acattcatgg	gctttcttcc	caggggtgaat	1560
gcttttatgg	actgcgaggc	ctgagctata	gctgaatgct	ttgccacaga	catcacactt	1620
gtaagggtttc	tctcctgtgt	ggatcctttt	atgcactatg	aggcctgagc	tgttcctgaa	1680
agccttccca	cattcatcac	attcataagg	tttctctcca	gtgtggatga	ctttatgctg	1740
aatgagaaga	gagctataat	taaaagattt	ctcacactca	tcacatttat	aggggtttatc	1800
tccaaagtgg	atgcttttat	ggttgagaag	tgttctacaa	gtaatgaagg	ccttcccaca	1860
ctcatcacat	tcgtaagggt	tctcacctgt	gtggatcctt	ttatggaccc	taaggccaga	1920
gctgttactg	aagggtttcc	cacagatgtc	gcattcatag	ggcttctccc	ccgtgtggat	1980
ccttttgtgg	actctgagcc	cagagctgtt	cctgaaggcc	ttcccacact	caccacattc	2040
atagggcttc	tccccagtgt	ggatcctttt	atgctggtcc	agaacagagc	tataattgaa	2100
ggattttcca	cattcatcac	atttacagtt	cttctcccca	gaatgggtgc	ttttgtgggt	2160
tataaggctg	gagtaggaca	tgtaggcttt	cccacattcc	tcacacttgt	acggcttctc	2220
cccagtgtgg	atccgtttgt	ggacccgaag	gctcgagctg	ctccggaaag	tccctccaca	2280
gtcatcacat	tcatagcgct	tttccccagt	gtgcataatt	ttatgttgaa	caaggcgagg	2340
attatatattg	aaggatttcc	cacattcatc	acatttatgt	aatttcttaa	cagcattggt	2400
tttctgctgt	agactagggg	aggaggttcc	attaatgttc	tccacacgtt	tgcttgcctc	2460
actgcctctc	tgctctatag	gcatagtctg	gtgtgtgata	tgctgtgggc	tcagatgcaa	2520
gctcttctca	gatgcctcac	cttctgttcc	tgtctttata	tttgctgtac	tcttggtttt	2580
gctgattgct	tccctgatgc	tgcttttgtc	ctccttcac	ctgttttcca	cag	2633

<210> 53
 <211> 1752
 <212> DNA
 <213> Homo sapiens

<400> 53	
tagtgcattc	aatgaatgac tgaatgaatg catctttgcc tttgccttac cccgggcct 60
gaaacatcgt	cttgggtcccc ttctcaatac cttggatcct tggagatcaa ggtcctgggt 120
gttctggcaa	gttcaacaca atctggcctc atgatcagag tcctgtccct gaactcaaga 180
caaggaggagg	atgggcagaa ttacctcatg ctgtgccagg aaatatgagt ctcatggggc 240
atggcctgtg	tgcttgggca aattcactgc ctactaccc tgtgctgaga tgatctcttt 300
tttttttttt	tttttttttt ttttctgaga tagagcctca ctctgtcacc agactggagt 360
gtagtagtgc	aatctgggct cactgcaacc tccctcttcc cggttcaagc aattctcctg 420
cctcagccgc	ccaagtaggt gggactacag gtgcgcacca ccatgcctgg ctgatttttg 480

US33026.ST25.txt

tattttcagt	agagacgggg	tttcatcatg	ttggccagga	tgatctcgat	ctcttgacct	540
cgtgattcac	ctgccttggc	ttcccaaagt	gctgggatta	caggcatgag	ccactgcgcc	600
cgtccaatct	ctctttcagg	gacagatgtt	cactctctct	tgcagctctg	cctgccagac	660
taagcctgaa	aatatctctg	catctggcat	tcctttacca	cctatgtggg	gcacaacca	720
gaacaaagtc	cctccaagtg	taccctactc	tctttccatt	atcatttctc	tggctctgaga	780
tagatgttta	tgacctgcca	ataaatgcag	tgactcaaac	tccagtgcc	atactcctca	840
ttcatacagc	catgtttagg	gaggctctag	ggagaaatgc	acagtttgac	atcgttcatg	900
aagagcctct	ccacggctcc	tgcgcctgag	acagctggcc	tgacctcaa	atcatccatc	960
cacccctgct	gtcatctgtt	ttcatagtgt	gagatcaacc	cacaggaata	tccatggctt	1020
ttgtgctcat	tttggttctc	agtttctacg	agctgggtgc	aggtaagcct	ttcagtttgg	1080
actgttgttt	ttctccttgt	tgaataatat	tttgagttca	ttcatgacaa	tgatctcagc	1140
acagtgagat	gcaggaatct	ttggtgcttg	cattctccag	cttctcctgg	cctcaggctg	1200
gaaactacca	atgccaggag	ctgtgggaag	cacagggcag	caggaattga	ggaagactcc	1260
ttgggctgtt	tctcaaggac	ttgggcacta	tcacagtagc	tcagaataat	gggagcaggc	1320
cctgggagca	gggagggaac	acattgagaa	cgccaaggta	aacacattgt	tctccccagg	1380
tgggctgtgg	ggcttaggca	ggggaagtct	ctaataaaat	ccccaggttt	ttgacttggg	1440
tgcttggtg	gaaggtggca	ctgttttaga	tgtttgagaa	aaaagacaat	gtgtccagtt	1500
atgcacatgc	tgagttagaa	acacctgtag	ttatggggta	gagcaccaga	cctttaagtg	1560
aggagtaagt	tggaacctgg	catagtctag	gcagaaaccc	actcttcttt	ctccttctag	1620
taaccatcaa	gacaaagcct	ggtgtatagg	atattcagta	atcaaataaa	ttttgcaggg	1680
agagataggg	gctggagtag	aacactggat	tctgggtggt	cagtgttaag	ccacaaaaag	1740
ttcatttgac	tg					1752

<210> 54
 <211> 2795
 <212> DNA
 <213> Homo sapiens

<400> 54	ccagccccac	ctgctcaggc	agcctctatg	gcccctgcac	gctgccccca	gggccaggag	60
	caaggttcta	ccttcgccac	tctgcctccc	aaggcctccc	caccagccca	cggtctgaca	120
	tctggactgt	tgccataggc	ccccgttttg	gctgctggct	aacaggacag	cgaccacca	180
	ccaagacaga	catccactct	ctgtggccac	gccctgcttt	ctctgcagct	cggggccagg	240
	agcactgtga	ctcctcaagg	caggatgaag	gctgccgctg	tgctgtgag	ctctcatgtc	300
	ccaccgctct	gcccagacca	tggctctcagg	gcactgcctg	gagctccttt	cacagaaagg	360

US33026.ST25.txt

gtcagatgcc	caagggggcc	cgtagggcag	cagcgggtgg	gtgaagccag	ctaagcaggg	420
ccttccagca	cacaaggatg	tcggccccag	ggcgggcatc	ttcagagaga	cccagagcat	480
cgaggctggg	gtgtggagct	gccggtgcg	caccgtgggt	ggtgtcaagc	agaatgcatc	540
ttgccgag	atctggcatc	tgcactgcct	gcttctcctg	ccgcaggctg	ccacctccct	600
gacacagggg	cccagcccag	ccggtgttct	cacatgagcc	tgggggtggg	gggaggctgt	660
tgtctgcccc	tccaggacac	atgtgcctag	gcctgagccc	ctgcttggct	cctgccgcac	720
cctgtgggct	caactccgca	cagggcagct	gttcttcttg	acattttcca	gataagtgga	780
tgtttttatt	ctggaatttg	ggagcgacct	ttatctgctg	tctggaagga	agcatctgtc	840
accagtgtaa	agcctcccag	tctcccaggg	ctccactcgg	tggccccgc	atgctggaac	900
cagtcctccc	agacaccacg	gttgggggca	gggccggccc	tggggtcagg	caacaaccag	960
gccgtcagct	actctgggac	gcagcccagg	ccgggaggag	gcagatgcag	gcaccacggg	1020
acctgggtga	ccggcctctg	ttcactcctc	ccatcccctg	gtgcccggca	cacagagggg	1080
ctgaggagcg	tggagaaggg	aggggcaggg	agcagccggg	gcaggggcct	cccggctggg	1140
cctgaggagg	agcaaagcct	gcctgggacc	cccaggaccc	ccaggatccc	tcttactgc	1200
cagcctggcc	atggagaggg	gcccagtctc	ccctggagca	cacggtcgcc	cgacggctgg	1260
tcacaatcgg	gtaggcagcg	tgtcctccct	ctccagtcct	caactacaga	gggaggactc	1320
aaagtgggac	aggcagacaa	tcacccgccc	agggactgtg	ctgggaagga	gggtgtggtc	1380
tcaaggaggg	aggcctgggc	gctgaggcat	ttccaggtag	gaagcagaca	agctcctggg	1440
tgggtggaag	aggcctcccc	tagggcatgt	ggaccccggg	caaatacatt	ctaaggcggg	1500
agtcctcggt	tctataaact	atcaggtttt	cctaaaatca	acaagacagc	accatgctgg	1560
ccgccaacc	tcacgtgatc	caactaaagg	aagcccacac	aggctagcag	ggaaccatct	1620
gttcctaggc	cccctttcca	ggactggacc	ccagccacac	agtcctcaca	accaccatca	1680
gcctgagttc	caaagctcct	tcagacatgc	aaccaacttt	ccacactggg	catggggcca	1740
cacagtgctc	cgtggagagg	aacagggggc	accaggcccc	acatggttcc	ccactcaggc	1800
ttggggagct	accctcggc	acctttggca	gtgctgactg	gtctcaggca	ctggaggggg	1860
tcttgggaatt	tctgagaacg	gtattccaaa	ctcggggggc	caggatccca	gggcaggggca	1920
cccaccaccc	aggtctaaag	caatactgac	tacaaagacc	ccaggtgaca	ggaccgaggg	1980
catccaacc	cttccctccc	aagagccagg	gctgagccag	acacaaggga	cagaggaagg	2040
gctggcctgg	gatgaaaggg	acactcaagg	gggcagctcc	ctggagcctg	gactagccac	2100
ccaggctcaa	tctgcaggca	gcataccccc	acacacccca	gattccaggt	ggtgcaaagc	2160
tcagatgctg	ccaccacctg	ttccccgtgc	ccaggccacc	ccactccagg	ccagggtggg	2220

US33026.ST25.txt

agccaggccg	gcctcctttg	ccaacctctg	ggcccaggca	gactccttct	ctccgagact	2280
ctgctcagaa	acaccagagg	ctttctgagc	ctatccaaga	ccagatggcg	ttcatctctc	2340
agtgtcaata	aatcggacgt	ctccagggaa	atgactttta	cttggtaaat	accaagcaag	2400
aagagacggc	ggcgcgagcc	cccagtctag	gagaaccgca	gccagcaggc	agccacctat	2460
tgatttcac	tccctccaag	gccaggggtg	tgcagggagg	agcagctttt	cctccgacac	2520
gactgcgccc	gcagggacag	gaggagcagc	cgtgcttctc	tccagctgca	tgaggcggtc	2580
ttgcagggga	gagacagccc	tcccagaagg	gacctcggtg	gggctaacgg	cagctggcac	2640
aaaaatccac	caccaaaggt	agaaggagct	gcgccaggct	gttggcagtg	ggaggggaga	2700
gagtcctgga	gacaaggagg	ggaccaaagg	gaaggcagca	atccagatgg	tcctgcgggg	2760
tcggacaggg	ctaagacagg	aggctgtgct	ggctg			2795

<210> 55
 <211> 2661
 <212> DNA
 <213> Homo sapiens

<400> 55						
aaaggacctc	tttaatgctt	atcagccacc	cctccgccct	tggtgtctt	tctggtatca	60
gcctcctcct	cctcctccct	cccagactcc	aggccctggg	ctccagaagg	tccatccctg	120
tggcctcaag	gcaccaggca	catccatgcc	agcttcatcc	tctccagtga	cacggctgtg	180
cagctgtaac	tgaaaattta	acagactgtc	cctctgacta	tttctccttc	actttcttgt	240
agcaaaacaa	aaagggggaa	aaatgcatcc	caggggtttc	cagctgccac	cttttcaagc	300
caccgttagg	ctggccaacc	cccgccagtt	tcctcccatc	ctcctgggat	gcctggggga	360
ctccatcacc	actttctaga	aactgcctat	agtcagaggt	ggcctggggc	tgcccacaca	420
ggcatggaga	cgtggaggac	acagcctgat	gctagactgc	acaggaccct	cttccgccag	480
gttccccgga	cacctccatc	ccctcttctt	gcaatcatgt	cattgcatgg	tagcgctgtg	540
gtcctaattg	tcccatgcca	caagtctgga	gcccttcgct	cctgtctccc	gaggccagga	600
ttgagcctgc	ttggcccaga	ggagggggca	gtaaatgtca	tggacagaag	cagtgatggg	660
agagtgggta	atgtggagtc	gtcacagtga	cacagaggct	gaggcacact	gtctggcaca	720
gcccagctag	gcgctgccca	cagctgagct	tccagaggac	accttctgtg	tcaccatatt	780
ccaggattca	aatccttcca	gtctgggaca	agttccatgg	ggtgccatga	ggctgccccca	840
gtttgatatt	aaaatgtaca	gtgaaatgcc	taccttggtg	gtggccaagc	cctgaccctg	900
ccaaggacag	tctgggagag	gcagggccag	cctgaatgcc	ctgtgctgat	ggacacacag	960
gcacaacacc	cacagctcag	ggagcccgtc	ccagcctgcc	gtggagccca	gggccagggtg	1020
gtgagccatg	agcctgctcg	ggacagtcct	tcctgatcct	ggaagggagc	ggcccaatta	1080

US33026.ST25.txt

```

taacagctcc cggccggcaa ggctctcagt ggagccgagc ccagagagaa ggcctgcact 1140
gccagatggg cgagctcatt agaatgggag tgtggtatatt cttatgcaaa tgagggcaaa 1200
tacatccatg ggagaaatgt gaacaacaga catgcacagg agcacggact tcaccggggtt 1260
tcaagaggag agggagctgg gacgggagac caggagagat ctctgcccc agcactgccc 1320
tgcagtggcc tagcccaggc cttctggatc tgcctacatg gaatgctcaa gagagaaact 1380
gaggccccag gggccctgca tatgggtgga ggctggcctg acctgcatcc tggaacagag 1440
agctgccccg gcacctatag gcaggcagga agtcaactggg cagagggaca ggtgcaaggc 1500
caggtccaca atcctggcca ggctccaggg gagggagatg ccccagctaa tgggacacgg 1560
gccagatgta gactgtagcc aaggggacca gaacagaagc accagggccc agtttttaggg 1620
agcacccctc aggaggcagg gcttgtcctg cgcctcagag actccacagc tcagcactct 1680
gggctcacc aggttgggtt accggtcaga tgcacctgct ccatctccat tctgccacat 1740
cctatgacct acagtccaga tctaggactg ggctcacacc ctctgagccc tttccccggc 1800
atcctgcccc tcagggtcct gcaagcccct gctcctacac atccacagta agccccttgc 1860
ctctcccatc tctgccccct cctgcctcac gcctctgcag acctcagatc tctttccctg 1920
tcccttccca gtgcaactgc ggctgtctca cctgcccac catggccgcc ttcagcccc 1980
tctctcctcc ctggcagctg cagctccctc aaggctgccg ccctggccct tggctctgtgc 2040
tgccttccac tgaccagtc ctttgcccc caaccctgtc caatcctcaa gttccagcat 2100
cctcctgggg ctcttccca ctctccagtg acctgccctg gctcagggcg cgcagggcct 2160
tctcagcact gtcactgctg atctctgcag gcatcgccct ctgctccgcc agctcccgtc 2220
tgtccagggt gcaccatcat aaccagaca ccaacaccct caaccaggac ttgcagtcca 2280
ccatcatgcc cgtccctgct gaattccact actgtgcctc tcgacacgct ttccactctc 2340
attaggcaaa gccctgggca aagccgaagg cctgggtacc ccacctctgc cttccagcac 2400
cctctgcagg tgaacagaca acaccaggc caggcccagg gtcatggacc cataccttag 2460
aaccctggc aggcacaggg aagacacaca attgcctgac ctacccccgg tccctccac 2520
tctgccgtcc cacctggcga ctgaacacc tctgctctgc tcagctcca ggacctaaca 2580
gccacacaca caacctcagc ttcggacctg gccgcccagc tactgcaac aataggagag 2640
gctttccata gctctcacc a 2661

```

```

<210> 56
<211> 2189
<212> DNA
<213> Homo sapiens

```

```

<400> 56
gaactaactg aaccagagac aatctgtcat cctgttggt tttggactgc ctgttatcac 60

```

US33026.ST25.txt						
ttgtcctaaa	attatttata	tctttttcttt	ataagatata	ctaattattcc	ttagaaattc	120
cattgaatgt	aaaataaaac	accctaaaat	tccaccaaca	gaggggaagta	ggtgttaatc	180
atttttagta	aatacccaaa	ttcgtctatg	taaacatgaa	aaacaacaac	gtatatctac	240
atttactgtc	atggaaatga	cacccctgac	gcgccgtttc	cggagagaga	cagggcgag	300
agcggcaggt	gccatttccc	ccatgtgaca	tcactcacia	atacacagt	tcacaggag	360
attatctttc	ggtgataaaa	ttgttagctc	tgggttgaga	gaaggtctca	agattcaaaa	420
gcgtcacccc	caaccccctc	tgacctcact	cacctcacac	tgcaacacac	cccataagat	480
acactgcccc	acaagcacac	tcacacaacc	cacacaaaca	ctggcagtcc	ccaggggtcaa	540
gagctccaca	ccccacgctc	tgacctgtc	cctcctcaca	gatctgtcct	gatgtgcatg	600
ctctgtgggc	accttgccctc	agacgcaatc	cacacaaaac	ctctacccc	catccccttc	660
tgcagaaagc	accagtgtgc	aaaaagcatg	cagaattaga	aagaacagaa	aacgaatgca	720
ggtaaagcaa	aaacaaacaa	caaaaactca	ggatacacag	ctcagaagaa	agcaaataca	780
agaagaaaga	ttgagtccac	gtgggcgggc	tgggaatgcc	caactgtgcc	tggcagaaga	840
ccaggccact	tgctgtccg	gagccacagg	gagctcctgg	agagcctctg	ccccgactcc	900
aggcccccag	tgtgccaagc	ctccaaaacg	cccttgcggt	tccaatcccc	aggcaacctt	960
aggcccctca	cagcccac	caacagccag	tgcagacgca	ggtcctcggg	ctgacatggc	1020
cgctcctggga	acagcgggcg	caatgccggg	gttgacgtga	ctgacccttc	cccggtaaca	1080
ccggcgtgga	cgcccggctt	ttcgcgcat	acatgctgga	aactgttcac	ggtacttaca	1140
tttccttaca	cggcactgca	agatgcctac	gttttgtgat	tcagtacat	cgcctacaga	1200
agccataggg	aggcggggga	ggccagacaa	gccgcagtcc	agccttcct	ggggcccctg	1260
gcaactgaaa	ctcgccacaa	atgctcaaac	atgtctgact	ttgttcaaag	tgtaatttt	1320
ccaggccctt	gcacaggagt	tcatgtggcc	caggagcctc	atttgacag	aagcatggct	1380
tcgggtttga	agcacaggcc	tagggacggt	catctgtcca	ctcccacccc	agttgcaagg	1440
aaaaggaaat	ctcccagaag	ccggaagtgg	ccgggaggcg	accctggtcc	tggccagagc	1500
tgtggtctct	tccagagttg	atgcccccca	cctcccagcg	accccccgcac	aagttgcccc	1560
tcctacctga	gaggcttagg	tgttaggtgt	gggcagagac	ttccccacag	atgtcaggcc	1620
atgaaggact	gcatatgagg	ggcgtgcctg	tgaacacgag	gggctgccta	tgaatatgag	1680
gggttgacaga	tgaggggctg	cccgtgggcc	cggcggtggg	gggcgctgcc	tggcccttca	1740
cgttctgcaa	tattcatatg	gacctgactt	ccattaccct	gggggtgccc	gggccacggc	1800
ggcccccttc	tcttcctcct	cctgggtggg	gtctgcagtc	tgaccaggcc	cctctcgac	1860
acaggagcgt	gggggctaaa	gcaagtggaa	acagaataag	gcaattgggg	tttggggggc	1920
tggggcggtt	tttggttggt	cgtcctggac	gtagccacag	aggaactgct	ttctagggga	1980

US33026.ST25.txt

ctcaccaact	ttaggggctt	ccctagaagg	cgcgggagcg	taggaccac	ggggcgctca	2040
gcagtcgggc	cagggttcca	gggctcccgg	ttccgcgctc	tcctcccgc	gcgccgggca	2100
gcaggtgagt	gtcccgggga	gcagcggatc	tccggcgctc	ccaggcgccg	cccccggtct	2160
cagcagctca	aatcctccct	ctggaaact				2189

<210> 57
 <211> 2554
 <212> DNA
 <213> Homo sapiens

<400> 57						
ttccttatga	cttcaaagcc	cctctcacct	tctgtttggt	cttttccatt	tgagaaagaa	60
gttcacaagt	ggctgttaat	gaattatatt	cattactaat	atgccactca	aaagggctga	120
ggcttctatt	tgggcaactt	ttactttgta	tcattgcaga	tgttggtact	cttgactcaa	180
gaaacactaa	ttactagtaa	tgaatacaga	aaggacatct	atcaatgtag	ttatagagac	240
cagagaggaa	tcttagaagt	agtctaactc	aaagagtga	taggcagaat	agccacctga	300
tatggaatca	ctttatacaa	atcctgtcac	ctcaatttgg	acattgagag	ctttggcact	360
aagaaccaag	cagagttttg	tgtatgggtc	tcataattcc	ttttttaccc	aaagaaacaa	420
accaatatta	gctatgactt	tggttaaggt	agtgaatcca	tagctcaaga	gcatttccac	480
cctacccaaa	tggattttga	tgctaacaaa	tccttttggg	caggggaagga	catttatctt	540
taatgcttat	atccattttt	tctaacaaat	ccacaaacca	agattaaaca	gtaaagactc	600
ctctcataaa	gtatatagtc	aaagacttta	attactagaa	caagaaagga	aggtatacat	660
tattttaaatt	aacaaaagtt	aacagaggca	ctaataataa	tgacataacc	acactggagg	720
tggagagcag	tgtagatata	ctcattgtca	cagaagtcag	tcaatagacc	gtgtctgaaa	780
actaggaaac	agaaaaaac	aagacagttc	cttccaggga	actagcccca	aggtgaggca	840
ggaaactgat	gattttcatt	ataggggtacc	cttccatact	gccatgttga	cccatgtgca	900
caaattacct	tggtgaagtt	tttaatgttt	aaaaacaatc	atggtgatta	cactactaat	960
ggtccttatt	taaggtcata	cctggaattc	caatattctc	ttggcaccac	aggggcaatc	1020
tggaatatcc	ttttcttgag	gaatattttc	accagaaatc	cagatggggg	caatacctct	1080
gccatatcta	agaatctaaa	atcaatgaag	atcatgttca	aataatcaat	accttaccta	1140
taagttgcca	atggtaacat	gctatctact	ccatgaatgt	tcctactctt	gatgtagcac	1200
tgacccaaaa	ggcatgtcac	agttccccca	tcagacctgg	ctgtaccagt	gtgccactaa	1260
tgcccttctca	atcacctcaa	agtgattatt	tcagtttatc	tgactcagag	ggcatcaaaa	1320
tatatctccc	agatgatgct	tttactacct	aatgttggca	acttaatcct	atgaatatat	1380
tgtgaaggga	ctaagaatga	gcctctgctc	taattgcaga	attctgcca	gagtctgtgc	1440

US33026.ST25.txt

ctaccttcat	agttaaaaaa	ttttaggagg	gacaaatacc	aagtgaaaca	tagtgttttg	1500
aaaactacta	caaacataag	taaattttcac	tgtaataagc	ttcctacagc	aactgagtgg	1560
ttttctgtat	tttgtctaaa	agcatatgca	ttgctaaaaa	ctgccttagt	gtttaagacc	1620
tagatctatt	cttcctgtgt	atatttttga	accagtgact	ggtttatggg	agtttagttt	1680
tctttcgtga	tttacgttta	tggtagggga	ggttaaggag	aaaaatgtta	acatgtcaca	1740
ttttacaagc	caaagttacc	tggtggaaat	gggcaaaaat	aacctttttt	ctttctggcg	1800
ggggggccaa	tggtgcctaa	acctcatgta	ccttaggcaa	catctcattc	atctcccatc	1860
cctgatgctt	gctttagaaa	atgaaccctg	tatgataaac	agtataacct	ttagtctttt	1920
agtaactatt	aaatggatca	gcactgcaaa	acacctttct	acatggccca	tctgtgtgag	1980
gaactcctct	aacaagataa	caaaagcctg	cttttatagg	ctcctaagga	acagactaat	2040
gttactatga	agttatttct	tacagattat	actcataaaa	catggcctga	agagaacacg	2100
atgaggagct	atgagctcca	ctttacctgt	tctggttcaa	gggctatctg	agttttaaac	2160
ttctgaaaaa	ttttatcttc	cctggattca	tgttttgcc	tggaatccag	ttcttcctca	2220
agtgcctcac	ctgaaaaatc	aacgtaacta	ttatgaaaaa	caggagtaat	ccccacaact	2280
tgacaattca	cacatggaga	ggggaccac	ttttaatcag	atagctttcc	ctattttattc	2340
actcattcaa	gttggaccat	ctgaatttcc	aggactcca	tccaactcta	ttatatggac	2400
ttccatttag	tgcatctcct	taaagcttca	aaataacaga	atggcaagg	gcttaggact	2460
gcccagcaca	tcacaggaca	ccaacaaat	gtgagccctt	atcattagta	tcctcagctg	2520
gtaggctcac	tcactcagtc	atcaagtgtt	catt			2554

<210> 58
 <211> 2599
 <212> DNA
 <213> Homo sapiens

<400> 58	
ctatcttcat	ctctcttcct atacccccca ttgacacgtg aatcagcggt tctcagaata 60
ctgcaggttt	ggagtgtgtg tggcggagga gggcggagca gcgtggaagg tggagaggtg 120
ggcgggtgtcg	gggatatcag cagggcagtg ggcattggag ggggtgccctt ggcctcagcc 180
acagggccgt	tccagagccc tgcgtgggag aggccagggc ggcgcgtgat ggtgccctcc 240
gagaagcact	gggaccagca ggaaaggctg cctgccggtg cgcaggaaaa gggaagagag 300
ccgggggaatt	gctttttgac ccgtaaggga gcgtttcttg gtggatgggg aaatcaaaaa 360
attgactacg	gtgtagtcag ctacatcgtg taccaatttt caaataccgg tgagatcagt 420
aaaaagagaa	aggggaaggag atcacagata gcatgaaacc aagccatcaa taatgaaagt 480
accactgggt	actgagcagc gtctgttct aactgacttt gctgggggag gggcgggaca 540

US33026.ST25.txt

ggtacaagca	aaaacagcaa	cgacagcgca	gcagttgctt	catgtgagta	ataattgaat	600
ggtacgaggc	tcttccacat	tcatgtattg	aaggcccaag	tgcggccaag	gtctccctgg	660
ttcctgaggt	ttgtttcatg	ctgggttcct	tatactccag	atgtcgggag	ggaccctcag	720
gggccgaggt	gcccacacct	gtgctccctg	catgacagac	ttcctggggg	cttggtctcc	780
agtctgtcct	catcctctac	acacacccaa	atgtggaagt	cacccccagc	ttgagtgaat	840
cccacaccct	cagaccattg	gccatgatat	tacgtgtgtt	gcaaaatata	aaggattcag	900
ctgagagggt	ctcgcagtgg	acggctcaga	ggccgagtca	cacactgccc	aggctttccc	960
tggggggccc	tggcccgggg	gccccctgcc	ttaagatgcc	cttcctctcc	tccctcagtc	1020
tcccactgtc	ttcaactcgg	gccctcactc	tgcttatcat	agaccccaaa	atgcctctgc	1080
tcaaacaaat	ggcttgacct	gttagcgata	tagaaaagtg	agcggatcct	ttgaacatgt	1140
tcgtttctcc	ttttctccac	ccaccctgcg	ccgtttccca	tttctctaag	tgcttggaat	1200
gtgtgggagag	tctcctgatg	atatgatgcc	agctgtgccc	agctccctgg	aacacaacat	1260
agggaaattaa	ccagtgtgtt	cctctttcct	ccgttagtga	aaatgagtac	tatttaataa	1320
tgcagtgaca	caggatttgt	tgctgttgca	gcacttgcat	ggccatgctc	accttcacac	1380
cacgcggagg	caaaggcat	tgttccctca	gctgcggccc	tctcccctca	gcagccctgg	1440
ccattccacc	atggtgtagt	cctcctgccc	ttctccatcc	ttctgaatcc	cattctgcca	1500
gctccagggc	tgcacgccct	ctggaatgac	caccgcgagc	tagcccaagc	tgctcctgct	1560
gtttattttc	tttgcacttt	gtttaattat	ttcccacatc	ttggctctct	ctccttgatt	1620
tcagatggat	tgctgaagac	agagtgtatt	tgtggctccg	ctcaggctgt	acacagacag	1680
gggcactcag	catccgtggg	tcgtatttca	ttctagggcc	aggagcgcg	gctactgcgt	1740
cagtgggaaa	gacgtggaga	tgagttcata	tttacctatt	tcatggtgaa	atctgcaagg	1800
tccctaaggc	aatggctttc	ttgaatggtg	acagcaactg	atgagtctga	aaaatctttg	1860
tgtctcactt	aggatttttg	cacagctggg	ttcataattc	agttattttg	atacaaaagc	1920
gttctgctct	aattagtaaa	aaaagaccag	gcgatagtgt	ttgcctcttg	ttaggtggct	1980
gccccatcca	tgcttttcat	ttctggagta	ggtgcccagg	aaatgtttac	tgagttgcac	2040
cagtgaatga	actcatgatg	ccgggattag	aaggggaagc	ccttgagacc	tccttctgcc	2100
ccagttctca	gcgtccctgg	tgttcagtaa	gtattagctg	gtcagtggag	tgcaaggctg	2160
ctggggctgc	aggcctcggc	ccatcctgct	gcagggccca	gcactgaaca	cctggacaga	2220
cctggggctc	cctggagcag	gctgagccat	ccctgccacc	attcagctgg	ctgccctgct	2280
gcactctgag	gcctgactgc	ccctggctcc	ctgctcagaa	tggctgaggg	ctcaggtttg	2340
ggtggaccag	gcctgctttc	ccccgaggca	tcagcacgta	ggtgctgcac	acactcagct	2400

US33026.ST25.txt

cccagcacat gcagctggag ggcccaggtt gcatacctga atgtgaagcc tggagccaca 2460
 caccgagcag gcagccaata gaggccctcc agcccagctt ctgctgcccc cagctcagtc 2520
 aactccagc taccctgaag tctccccagg cagacaaccc aggcctggga gtgagtatag 2580
 ggagggtggg tgtgatggg 2599

<210> 59
 <211> 2347
 <212> DNA
 <213> Homo sapiens

<400> 59
 cccacagtag gctgcaagcc gaggaacaag gaagccagtc tgagtccaa aacctcaaaa 60
 gtagggaagc cgacagtgc gccttcagtc tggggccaaa ggcccagag cccctggcaa 120
 accactggtg taaatccaag agtccaaaac tgaagaactt ggagtccggt attcaagggc 180
 aggaggcatc cagcgtggga gaaagatgaa ggccggaaga ctcagccagt ctcgtccttc 240
 cgcatttctc tgcctgcttt tatcccagcc acactggcaa ctgatgagat gatgccacc 300
 cagattgagg gtgggtctgc ctctcccagg tccactgact caaatgtgaa tctcccttgg 360
 caacactctc acggacgcac ccaggaacaa tactctgcat ctttcaatcc aatcaagttg 420
 acaatagtaa ccatcacatt aagtaaccaa ttagtgaaaa ctcataatga atccattatg 480
 ctaatgaaca tcaaggatta tgttatgttc ataacataac atgttacgaa aataactata 540
 ttttcttttag aaactggtga caggagtagc attgtttaga tgtgtgaatg ctcctgctgc 600
 ctggctcctg ggaaacaagt ttcccatgtg gaattctgta ttcagtctgc agtgacatca 660
 cacgtcagtt gcctctgcac acttggtgaga gaacgggagt ggaaaaggca ctcaacactt 720
 cagccatgag aggaaacctg tttgaaactaa gaggcccta agaggggagc cagcaccact 780
 taaaaacctt taagtactct caatagaaat ctttagttca caagatgttt tacaataacc 840
 ttatcctagt ctccatatca tttgtggaag ggaaagttaa gattttatta ttatttttta 900
 aaaaattatt atagatatat ttattattaa attttagtca attttattaa tcttttgatc 960
 atgtgatttt tctatgtatt ttgcgaaatc caaaaaatgt attcaaaaata tattttctta 1020
 tattttcatc taaagagtct tgctatatatt ataaagtttc tcagtccacc tgaaaataac 1080
 ctttggtgat gtcttgaggt atagatctaa aggtatcttt tttcaaaatg aagagccaat 1140
 tgcccaaacg attgggcact ttatttgttt tctaatagac taagtttcaa cacagaagag 1200
 ggtcttcttt ggtgctctgt actcttttcc tttggtctat ttttctctc taccaagata 1260
 tcatgtggct gtaattgcaa tggatttata tgggtgtgctt atatctgggtg taatgtatcc 1320
 tcgacttact ttttctcctt taaaagtatc ttggttatta ttgtcctgta ttgtttttgg 1380
 agtcagccag tcaagtttta aaaaacacgt aaacagatgc aggtgaacgt gtcccatg 1440

US33026.ST25.txt

gtgtgtgctt ggtgggaact gcatcaaatt catcacctca cttggggaga cttcatcgct	1500
ttaccatgca ggtctcacca cacctcccca tttatagaca tctttaaaaa tattcttcac	1560
tgatatcttt attttttcat aaagttatta cccttgtctt agttgatgta ttcctaggta	1620
actgataact tttgttgatg tcaaataaaa ttgcttttta taattatgaa ttgggtactg	1680
ctgatagttt tgtttactag tcttgtgtcc agttgaactc tcttatttgt tatgaccttt	1740
taaaatgtag atttttatag ggtcaataaa gaatgatggg ttccttttat tcctgacca	1800
ttgttccaca tttagtcat tttcttgcac tattgcacaa gccggtaact ctacccgagg	1860
ttgcatagaa agggtagata gaaagggcat atctttgcct tgctcctacc tcccaaaggc	1920
agtttctgaa gcttcactgt cacatgtggg ggctgctttt tctagtctat gatttagatg	1980
ctgcttttgc atcaacttag ctgtggattt tttttttaat gaagtttcac tctgttcccc	2040
agcctggagt gcagttgtgc aatcttagct cctgcaggcc taagtgtctt ctataaaccc	2100
caagtgcagc aggcgggagg agactctggc tatgcacaaa gtttgctggg gggaggacag	2160
agccaggaac tctgtgtgtg tcagtaaaat gttgggggta cagtcacctg gggggaaagc	2220
catcacagag gactgacat gagctgtgtg cattgggcag tctctccacc tccaagggcc	2280
tcagtgtcct ctcaggtgtg agggtcagtg gtccccgtgg cctactgcca cattcattga	2340
aatgcta	2347

<210> 60
 <211> 2574
 <212> DNA
 <213> Homo sapiens

<400> 60	
ctcttttctga acaccccccg gcagacacag cgcttacatg ggagtgcacg aaggacaccc	60
ttccctcacg ctgagctcag cacagagcct gcaggagttg cccgcagccc ggcggctgcc	120
atggagatac acacaggaca caagtgtctg tgatttctgt ggccacacct gtgctggctg	180
ctccccgacgt ccctggaggc cagctgttcc ggcagggctg gggcacacac acaatctcca	240
cagtgcagcc gcggcctcct gctgggaacg tccgccccgt cctgcctctc ggggcggcta	300
agtcgctaag tcacgcccgt gtccggctct gattggaaaa ggacgccctg ggcttggtg	360
ggaggaaagg ccagagggtc cacaggggaa aagctcagct ctggggggca tccctcccta	420
cagctgggcc tggagaggag cccagcacac ctgatggcca tcgcagatca ggaaaccgtc	480
ctccccctccc tctgcccctg ggccaagcag gtccctgccag ttactataaa ataaagcggg	540
gggtgtgggt ggcacaaaaa gcacagcagg cgagacgcgg ggcacaggaa ggaaggaagc	600
cacagcaagg cttctggtct ctgccgtca tcagaaacct ttcttccgcc ctcagccact	660
gtccctctta atccagccac attcacggtt tctgtatcac ccaaaacatc atgtttgttg	720

gaacttattt	tatttttagat	tcaggtcttg	ttaaccattg	ctccaggatg	ctttactttc	780
cttgtcttaa	acgggaactt	cccaggtcat	gttattaaga	agtgggtgcc	caggaagcac	840
gggtcgcagc	tccacacgga	cagaggctcc	tgggacctgg	gactggctct	aggatcatgac	900
agctcagcag	gattccaggg	accgacggat	tcagtcctga	ggggcagacc	aggtcctggt	960
aggtaacagca	aggaggactc	ccctgcaagt	ctggagcaac	aaggcccat	gaagggagac	1020
aaaaccaggg	accctgacac	ggtggctaca	agggcagagg	tgagagcaga	ggtgtgaagg	1080
ccacgcagcc	cccaggacgc	ccccaggaca	ggctggccta	tgctaagcca	cgcggtctcc	1140
cagactcctg	aatggagaag	aggggtgctg	cctcagaggc	tctcgtgagg	gccgtggagg	1200
ggagcggaaa	gccaggcagg	cagctgccac	ccgagcctgg	tgtttgctcg	gtcaaggtgc	1260
cacagcccc	atcaccccg	ggtggggggc	accaccatgc	cctgaggacc	gagggccttc	1320
tctgaggcca	gccagagggg	cgatgttcct	ctgcgccttt	tccaaacagc	aggatggtgc	1380
agaaacctca	ggagggtaaa	accgctcagc	tattcccctt	ggggcactgt	ctctctgtgc	1440
aggggaagagt	cagcagttct	ctctgtttga	gcagacgcga	cctccagctc	taaccaagac	1500
tctcagacca	cgttcaagtt	gcagccagca	aggagcccgg	agctggtatc	ccggagcttg	1560
ttctttcctg	gggcgctttg	tttcagtcca	caagccaacg	ctccgtagcg	cggccccac	1620
cctcctgccg	tgtggggcaa	actattcaaa	gtcccctggc	cgtcagaagg	ttccagaggg	1680
tgtgcagtca	ctttcctccc	cattctcaca	gcagcaggac	caatggggac	gtggctttgt	1740
ctgcatccct	gcggcccctg	ccactgcact	cgccaccatc	aaaagcttct	cctctcggag	1800
ctcaaggaca	catcaaatga	tgtcacacca	cttcacgccc	ttctcccagc	agccccgctt	1860
cagtgccttg	gaagctgcac	aaaataagat	tctgttatca	agcaacgctg	cacttcccac	1920
atctggatgc	acgccaagac	aagacgtcag	tcatttcctg	gtgaaatgaa	agaaagccac	1980
gcttcctcca	cgcccattgg	gtcacgaaat	ccttgctaata	cctggccggg	gactggagg	2040
atgctataaa	caatcacgga	tctgagcagg	tggtatgaagg	gaacgtagat	gacacgttga	2100
gggtgtggtg	cgggcaatac	acagactaag	agtgggaact	ggcgaagtga	gctataatcc	2160
caagcataaa	ggaaaggagg	ggaggtggcc	tccagcgcct	ctcctactag	ttaaaggaga	2220
gagagggaga	aaaataccac	tggaacctcc	aggcaggtca	gacgggcact	tggggcttat	2280
gtgcattatt	tgatggaaca	agcagtgctt	ttgtttctta	ggatggccat	ttttatcttt	2340
ttgataagtg	tggaggaagt	tggcttagta	taatttaatt	tctctctcct	attaacaggt	2400
ctcagtaaaa	caatggggaa	tataccaaaa	aagagagaga	gagagagaaa	gccaaaagaa	2460
cataaaacta	gcacattagt	cttttaata	aaaatgcaga	ggaagatagg	gaaggaaaag	2520
aatactaccc	aatattagtc	cagacctcga	atacgaccag	gacagcctgc	caca	2574

US33026.ST25.txt

<210> 61
 <211> 2872
 <212> DNA
 <213> Homo sapiens

<400> 61
 cagctccaga gcaggggaacc cacctcacca gcgacacagc ggcgacgagg gccgggtctg 60
 ggagggcgctg ggcagggagg ggcgacggag gcggtctccc ttgccgggggt gctggtgaca 120
 cagcggctgc acctgtcaga acacgccagg gtggagacag gagatctgtg tgcttcccga 180
 gtacagatca cggctcagca tctcatggga aagggacagg gctctcttca ggacacgcag 240
 taagatttca agtgcgggca cttttaatac tccgcgatcc aaaggcagct ccagggccag 300
 ccgcggtttc cggcctcaag ggcaggctcg gttctggagc tccctccagt ggccgtcggg 360
 gtgccgtcac tttcagggcc ccaccaggag agcagggggcc ccgccgagga ccagagcgcc 420
 tggaccagag ggagccctgc gcggccggca cggatgcctc tcaataggcg gcatggggcc 480
 gacacgactc ggtgagttcc cgccacggct ttcgcggcag ccggcggctg gaggacaagg 540
 agaatgcgcc ggttctgttc ctggacaagc tccatggcgc tgcgggggtcc cggcccagaa 600
 agcccaccct cccccagaat ttccccaggc ccacagaagg ggaccggaat gggaaaaata 660
 ccgacaaacg cagcaacggt gcggccgtag gtgtctgcgc atccggcggg gctcctacgg 720
 gacccccacg ccgcctggac gccgcctagc agatttgggg ccaggctaata tggggcccat 780
 cgtggcccac agatgccagc tccggggccat gctgaggggac aggggagcgg aggatactgc 840
 ctgtttcccg gcggggggcc ctgctcaaca gcctttccct tccctacaaa ctgtcccagg 900
 atcccggggc attccttcca gtaagttggg aagtccagga ccagacctca acgtggaaaa 960
 agctggagga gagaaggggg gacgaggggt tctacctgcc ctctacctac ctgccctcct 1020
 acctgtctgt ccacgggatg cccagaggct cccagaccac cagccccaga cccttggtac 1080
 tgcgtcccca gctgtctgcc aggggcctgc tggggaggcc gatgcccatc cctaagcctg 1140
 agcctccagc ccggcacgag ggaaggcccc acatgccccca aaggagaggg ttcggggcac 1200
 aatcttcaca aaggctggag tgcaccccag aggtgagggt ttggggcaca gtctgttggc 1260
 ggaggcagga gtacaccca gaggtgaggg tttggggcac agtctgttgg cggaggctgg 1320
 agtgcaccca gaggtgaggg tttggggcac agtctgttgg cggaggctgg agtgcaccca 1380
 gaggtgaggg tttggggcac agtctgttgg cggaggctgg agtacacccc agaggtgagg 1440
 atttggggca gtctattggc agaagctgga gtacatccca gaggtgaggg tttggggcac 1500
 agtctgttgg cggaggcagg agtacacccc agaggtgtgg gtttggggca cagtctgttg 1560
 gtggaggctg gagtgcaccc agaggtgagg gtttggggca caatcttcac acaggctgga 1620
 gtgcaccca gaagtgaggg tttggggcac agtctgttgg tggaggctgg agtacaccca 1680
 gaggtgcggg tttggggcac agtctgttgg aggctggaat acaccagag gtgagggttt 1740

US33026.ST25.txt

```

ggggcacagt tttcacacag gctgcagtgc accccagagg tgagggtttg gggcacagtc 1800
ttcacacagg ctggagtgca ccccagagggt gagggtttgg ggcacagtct gttggtggag 1860
gctggagtac atccagagggt gcgggtttgg ggcacagtct gttggaggct ggaatacacc 1920
cagagggtgag ggtttgggca cagtcttcac acaggctgca gtgcacccca gaggtgaggg 1980
tttggggcac agtcttcaca caggctggag tgcaccccag aggtgaggggt ttggggcaca 2040
gtctgttggg ggaggctgga gtacatccag aggtgcgggt ttggggcaca gtctgttggg 2100
ggctggaata caccagagg tgagggtttg gggcacagtc ttcacacagg ctggagtgca 2160
tcccagagggt gagggtttgg ggcacagtct tcacacaggc tggagtgcac cccagagggtg 2220
agggtttggg gcacagtctt cacacaggct ggagtgcacc ccagagggtga gggtttgggg 2280
cacagtcttc acacaggctg gagtgcaccc cagagggtgag ggtttggggc acagttttca 2340
cacaggctgg agtgcacacc agggaggctt cccgcctctg gcagaatcac cgccatgctc 2400
agtcacaaac ccagagctgc gtttggacgc tgcagcacac gctgcggccc cagcaacgggt 2460
cctgcgcacc aggctcctct cccagtaagg tccgcttctc tgtggagctc aggggtccct 2520
gcagtgcca ccttagcaga gggcaaagcc ttgagacacg gatgctttgt cctcaggctc 2580
ccactggctc ctcagaacag ggcccctcag cgctgcagtg tgtcacatgt cccagtttc 2640
ccctcgtggg gctcacgcca ccccctggc acggaggctg gaaccaggt gtcagtcctg 2700
gctctgacca tgaccttgga caaaccaccc ctcagaccta gagccctcat gcacatcccc 2760
atggctactg ccaccggca gggagcagga cagccccggg ggtctgtgac tgtccccggg 2820
acatcagtct gagaaacagc gctgagttgg acgctgcctg gtgtggacac tc 2872

```

```

<210> 62
<211> 2856
<212> DNA
<213> Homo sapiens

```

```

<400> 62
atttctcaga ataatgaatg gcaggaaata ccatagttaa ttaataattg actggtttgt 60
aattatgtgc tatctacacc cataaagaaa ttgagaagct cataaaatgc acatataaat 120
aagagttaat tatgtgaata agtttaaatg tttttatgac aattttaaata tattttactt 180
ttataagact tccatgtagg tactagcact ttcattaatg tgcttgctat ttttactta 240
aatttttatc tctatgaaaa cctaacacct tcgagaaacg gattcatgtg cacgtttctg 300
ttgctaaact gtggcaggaa catcagacct taataagaga agggtgagga accacaactg 360
catatgtagt attcacagta ggagaaaagt gatactaata taccatgtag aaaaaagca 420
caacaaaata agataccatt tagcacacac agacaaacat gtttgctgct ttgtttcttg 480
tgactgacag acgctcttac ttactccgag tctttgaggt aataactgct tggaagatgg 540

```

US33026.ST25.txt

ccgaagagga	ggtgttgaca	tgcaagagtg	gctatttttaa	aggagcacga	accatgggct	600
aataagcgcc	tgcgatgtgg	ccacttcaag	cccacatgct	gccagcacca	tgtcctcgtc	660
tggcgtggac	atccaagggc	ggaggaagag	ctgaaccctc	cacaaagggt	ccattttgtat	720
gcagaaacaa	tgtccacagt	aggcgagggg	tttcttttaa	atcattagcg	tagctaaatt	780
tcaaagttca	agtaaaaatt	gttttttaca	gattgggaag	tcctcttcg	ttgtacccat	840
cagcagaagg	tgtgtgtgtt	caaggcaaag	cgatcagaat	tgagtgcaga	attgacctct	900
gtcggaatgt	tccgcatcct	aggtctcctg	tccctcgtg	ccactgcaa	gtttgctgga	960
gacagactgt	gccttcacgg	tcagacaatg	ccctcctgga	ctcttctggc	tttgtaatgt	1020
gcctgctctt	cagccagacg	gggccttctg	gaaggagtga	aggccagtag	tcagagatgc	1080
tggtgcaaac	ctatgctctg	tcattcccag	actcggtgtt	cttgggtgaa	tcctctccct	1140
gtctgttttc	tgggaataat	aagaacctgt	cacttctgtc	tttgcgggct	gctgtgagga	1200
tggtttgcta	tgctgtaata	tgaaaggacc	atgcagatga	taaaatgacc	cacagaaaaa	1260
gctggtattc	tcattatcat	cattttaa	actacaggtg	aactttctgt	gtaagtagag	1320
gttctttgca	gaaacatttt	tgttttaa	ttttgaaaag	actttatcct	tgaacagaat	1380
atgtggcaga	gggatttgtc	cgtattcatg	tctcattaca	aacatctctt	ctggttaaaa	1440
atgcaaatgc	agctgacagg	agaggacaga	tgcttggtcta	gaagccttct	gactgtcatc	1500
ctcagctgcc	cctcagcagt	aactacaaag	cctgcttcct	caaaagctac	tcctgggtatt	1560
tgctgggttg	tgccctcttc	tttttttttt	cttctttttt	tgctttatgc	acaaagtgag	1620
cagcaciaaag	gcatgatctc	atggccattg	tagcatgggc	aactttgggt	taaattgctt	1680
tggctcttat	ttaatttggg	tatttttctc	ccacatgctt	ttgcaactgtc	cggaaaatga	1740
gctttttcat	gattactctc	agtgtgctga	gactagtcag	cagcgttgaa	agattctttg	1800
tttttgcaca	gccagcccag	ggctcacgga	cacactttaa	tatcctgcat	ccacactccc	1860
ttttcctttg	tgtgtaaatt	cccgagaatg	aaggaaccgt	tttaccctct	catgtttcag	1920
gatgctttgc	taaggcgaga	acctcacagt	acatgaaagc	acctgtaggg	ctcctgtctg	1980
aggagccacc	cacctatgtc	tgcatccagt	ccgctccttt	acaagattaa	agtggcccgg	2040
ctgagacact	gctttttaga	aggtaagtta	cactcagaaa	agtcttatct	gaaaaatcgt	2100
gtttgactgt	taacagatct	aatgttattc	tttaaaaaaa	tatagtccaa	cttatagaaa	2160
tttctcattg	agagactatc	taaacagtga	acagtgaacca	aacacaagtc	ctctgttagg	2220
gtaggaacag	ccgcacaatc	acaatctgag	aatgtcttga	aacatgcaca	cccctcatga	2280
ccagttaggt	ccacactgtg	ctggaaactc	tggccacca	tgcatatgg	atgtggcctc	2340
tcttctgtag	ggatttcctg	acatgccatc	aggtttgggc	tcagactgaa	gcgactgtca	2400

US33026.ST25.txt

aaaccattac agtccagatc tttctcccct aaggggcccc taaggagccc catggcagct	2460
gggtgtgaagt cccctcctg ggagaggac tgtggcagcc tcctgccttc ggggactccc	2520
cagtctcttt ctgatacatc atcacacaga tctccaagct cgggtacctg ggaaacatca	2580
ccagcatagt tttctgatat ttctgcctgt gattccaaat cttcatgaat gtcttccttg	2640
tgaagaaact ccttgtcttc agtcctggtg tcacaatctg aaacaataaa tagaatatca	2700
cttgggaaggc agtgctgcag caggagcagg aacatagaca gtcacagttg caccactaa	2760
ctgtggagga ggcaagggga gcaggggatc ctctggggtg gcagtccaga tcagagggca	2820
tcagggaggg gtgggaggag cactgggtga ttaggc	2856

<210> 63
 <211> 2154
 <212> DNA
 <213> Homo sapiens

<400> 63	
gagcggcctt tgcaacatct cacttcccct gttgactgtt atttcttttc ttctgcttt	60
cctactccct tgatcccaa ctcactaggg gtatttagtg agcacttact gttgcagtaa	120
gactctagcc aaggaagacg aagagacagt tggagaccaa agagaacttc aattcgggca	180
cccgagccta gagcaggctc atgccccaaa tggctaccga ccagacaaa gaaagcaggc	240
ttgcttatat gtcgtttcag gcgtgaaaaa caaggcagga tacaagtttc agacaaagac	300
agtaaattat tcaacctgtg acaattctga gaaaacttac atttagttat cttgaccagt	360
caaccttgaa gctggacaga gctggggtaa gggaaaacag gaattacgga agtatgaggg	420
agtcgcgagg ccggagataa gcttgggaagg ttgagataag ctcgaggtg caacttctta	480
gcaatgctga gagtggctgc tttaaatttct tagcctatgt ataacttcta aatagcctac	540
actaaatggg aactattacc tatgttgtgt ttgttatttt aaactttaat gttatttatt	600
ttattttcatt ttcttccac attacctctg ctgttagcag ctttgagaaa tgctgctata	660
ggatgtggga agtcattaaa ggatttaagc agggagaggc aagatcagat taacatttca	720
gaaaaatatt tactgttttc cagctgaaac tagtagagta caatttactt tctggtcaca	780
gcacacagca gtcacatcct ggaggaactg tacttctcta agatctagtc tgcctgtgg	840
tttaaattgac ctttagcaaa ttgtctttat tactttgtac actgctttca ccagtctgct	900
cttccatggc taacggggca gaactgttat ttttaggggt ttccacatcc agtatgttca	960
taagatttct accctgtgtg aacttccaga tgtcgaataa aggctggatg ctgaccaaag	1020
acctttccac attttttaca tgtgtgtagg gttgctcacc agtagtattc ccctgatgct	1080
tcataatggg tgatcccaga gagaatgcc tttcacactc attacattca tagggtttct	1140
gtccagtgtg agttctgtga tgggaaatta gggtagaact ttaaacaag gcctttccac	1200

gtttgttaca	ctgataaggc	ttattttccaa	tgtggattct	ttggtgttac	acaagattag	1260
agctgtagtt	gaaggttttc	ccacactctg	ccttcataga	acttgtcttt	atagtgaat	1320
ctctggtggt	ttctaaattg	tgtagtcct	tcttaaggct	taccatgttc	actacactac	1380
acaattcctc	tccatggtaa	ctatttggtg	gctcattaaa	ggctgtactc	tgacgttctg	1440
catgtttttg	agatttcatt	aggatgtggg	ctttctggtg	attgttaaaa	tgtgagttat	1500
ctgaagctgt	gtccagatga	attacgttga	taggttttct	cttttggtgg	aacattcaga	1560
tatgctacag	ggtttgaggt	caagtctagg	atgctgtcaa	cattgttata	ctcctggctt	1620
ttctcccatg	gaatgttttt	atggatcact	gtgatttatc	ttcacatgta	cttgactagt	1680
actttcttaa	acattttctt	agttttcctc	tacaaagatt	tccctgatat	ttctctagta	1740
gactcacaac	tctgtaggct	ttaaaaaagt	tgggtgctta	gtcaatatct	cctttttaac	1800
acataccacc	cactgtgggt	tcatgctttg	gggggttcctt	ttggagaggc	aactctttgt	1860
tatctgcctc	acaacctgaa	gcaatacagc	aagcaggaaa	catggcataa	taaaaagacc	1920
acagcctttt	aattctaaag	accaagattc	tacatttcct	cttctccttt	ccagacaact	1980
tagtcccaaa	ggtataaagt	aaagctgagc	aaggtagcat	ccataccagg	gctgggggaa	2040
ccaagcagg	aaagagcagc	aaggtggagg	ccatccatat	agcaagactg	gcacagtgtg	2100
tccagcctaa	gcaggctgaa	gatgtcttca	tggaagggca	gaggcagaag	ggca	2154

<210> 64
 <211> 2079
 <212> DNA
 <213> Homo sapiens

<400> 64						
tgctctcctg	tgccaagcgt	caatatggat	ttttgatgaa	attttctaca	ttggcagggc	60
aagcccctgc	gtgtttcctc	aagtggaggc	agtgacagca	aaagcaaaca	ttttggatca	120
cacacaaatg	tttacaata	agatatgttt	aatgagcatg	atgcttcatg	caataatagc	180
agtggcaaaa	atggccaaca	gctacattat	tattacattc	ccagtgtgtg	tcccagtgtc	240
attcccagtg	tttctctgtc	actgtatttg	ctggtttgct	gagagcacta	tgagattcag	300
tgttccccag	tgactttctc	cgtcgcctaa	ttaattcagc	aaagcactta	ttggcgactt	360
catatggcct	aattgtggca	ataacttagt	gtgattaaac	ttaatcaaac	accatgtcag	420
taaatgacat	gatgtcactc	caccgatgac	attcatgaag	gaaatattag	ggcccaaata	480
ttcctatagg	tgactttcca	ggacgtgtgt	gctggtgtgt	tcacaaggct	gcatgatcag	540
gaaattaacc	gcaccacatg	ctccacaatt	tggagcaaat	catccacctg	ggacctcacc	600
agactctccc	cgtcagcagc	ggcttctgcc	tggaggctgc	agatggggagc	acagagggca	660
gtcagtcatt	ccattgccac	gtcctaaaat	ccagtcctga	cttcttaatc	ccaagccccg	720

US33026.ST25.txt

ttctcagatt	caaggccccg	tcttctctg	cgttgccatt	gccatattct	agaatgttat	780
ttacactaac	aacttagggc	cgaagacgcg	gatgataata	ggaccaagg	aaaaatcaat	840
gccgagcagg	ggtgcggggt	gcaaggaagg	cccatgagga	gcctgggctg	agtgggtttt	900
ccgataggag	cacacacttc	aattctgagg	tttctgttag	caaaaaaatc	attaagtaag	960
agaacactga	gagctatact	ttcacagcta	aaaaaaagtt	catttcttta	gagagagctt	1020
ccccacagcc	ctaactgctg	cagaccgcac	tccccaccac	ttccacctct	gtaaatcctg	1080
cacactcagg	tggaccctgt	ctccgaaact	tcccccgtag	agaaggacgt	gtcctcctca	1140
ctccagttag	agaccaccac	gcccgtggcc	aggcactggg	gctggcatga	ggctgccttg	1200
aacaccggga	acagcgtctt	gaccagttca	aattaggtca	cgattttgca	cttcccaaag	1260
caggccttcg	ctctgtttct	ccagtcccaa	gggcttcctg	aaacgtgggg	gcccttctgt	1320
caccagggt	cccacttccc	tgaaactcct	ccagatgtga	ctctgcctg	gaaaaaggac	1380
atcttctcct	gttacctttt	agcttggtac	aaccggagaa	actcactcaa	aaggctctgg	1440
acttgtagct	gccccctgag	aggccagcgg	ggaagggttg	tcccttggcc	ctgaacctct	1500
gcagggcctc	atttctccg	cagcccttcc	gctgctctga	taagagaacc	accaattaga	1560
cccggcactc	cagctcccag	gagactgaaa	cacatgaatt	cccaatgtcg	gcttctgagg	1620
cctcagcatt	tcttctccta	tgagcaccgt	atgcacatgg	agagccgtct	tcacctcaaa	1680
tttcagattt	gcccgtttta	cttctgctc	actctgcccc	agctctgctc	tcctgcctca	1740
gtttcccaga	gaatgtggaa	tcccccgaga	acacagtcac	ctccccagcc	tctggacacc	1800
atcacagtcc	cttcttcttg	actccccaca	gggcccgcctc	ttctgccact	actttctcag	1860
cacgaagcgg	gagaaggagg	aggcaggcag	cttcagacag	tgagaaagag	agacagacgc	1920
gagccgcaag	cacctttcga	tgcccaagag	gggaagctgt	tctttctctt	tttaagtggg	1980
agccgctcac	cactatctct	cctgcagggt	ttttgggggg	ccctggccgt	gctccctgag	2040
gaaactgcag	tgaggaggga	gagagacca	gagaggtag			2079

<210> 65
 <211> 2707
 <212> DNA
 <213> Homo sapiens

<400> 65						
gagcagccac	cctggatgct	cctgcacgga	gtctgttcct	ggacacagcc	agcaccgggg	60
gcttgtaggg	tacaagtggg	tcagaggcct	gggtccccac	ctccgtgtgt	ctgtgtgcgc	120
agccccaggg	gtaagtggg	cccactcctc	actgatgaca	gccggaggca	gggggggttc	180
tgcagggctg	ctgcttcaac	ctgtgctggg	cctgactgat	aagggtgttc	ccaggggaaca	240
cgaagttag	ggagaaacag	aaagctgtga	gaccaaaggc	ctcaaaacta	aggctgactt	300

US33026.ST25.txt

cataggtttg ccttaagtct tccgcggcat	gaggcagaat agtaataaat gatgagataa	360
aattaacgca gcagctaaag cccagccaaa	caacatcatc tggggacagt gtcagcctaa	420
gggtgcttgc ttatgttatg caaagaaaca	agagtctaag aggtctctcc aggcagctca	480
gcaaagcagg tctgggtctg agctcgcccc	agcgcgcatac tgcaggcagg gtgggctgta	540
cagcagccca gtgcatttgc acacatggac	tgaaatggca aatccctaaa agagctcctt	600
ccttctgtcc taggctcgtg agtgataaac	tgtgggagac tcaggaggca ggaaaacatg	660
ttcaccacc tcccttctgc tcccaagttc	actctcaaac caggatggcc catagctcct	720
gttccgcgcc caggaacagc agctgatgct	gaggcctctc ctggcacatac tccaccagga	780
gatctcagaa ggccccgaag cttgtgccat	ggcctcttgg cccctccagg ttctgcctgt	840
tacttggtt ggctggatcc aggagcccag	ggaacggcag ctcccatgag agatggtgga	900
aaataaaggt gtgttcagat cggcagttct	ggtcagttgg gttccttggg ccactgagta	960
gctacaaact ctgctgggtca gttccccctg	ttgccctact gccctcgatac ccaccaatcc	1020
ctgtaatcaa caagggcgca ggtggaaagc	tggaggcccg cacttcaaga gagcccctgc	1080
taggcacctc tgtcctcca gacctctgcc	tggagcctca ccggaggctc ccaagctgtc	1140
gccagggagc acagacgagg cagcagaggc	cggcctggcc cagggtctcc aggatgatct	1200
ccctcagggc ttcccttcag cctgttctga	gactggggca gatatacaaga gcctttggaa	1260
aagaggagca gagagagggg aagaaccaga	aaggcctgct gaggggaagc cagtggggtc	1320
ggggaattag aagtgggtgg tctccacggt	tgacaccag ccttcttcat cctgagtaaa	1380
gcagcccccg acggaagagc agacattggc	ctgggctgac cgaacaacac acctgaacag	1440
cagcatcagg gcttgcaaaa acgtccggaa	gttgttgtgg cggttgatgc tgggtgtcatc	1500
atccagggca atattcccaa acacctgcaa	tggagaagag caatggcacc ggaccctgct	1560
gggtctgcag gagccgcgcc aggtggaccg	agccacgaga gggcgtgcga gccgtacaag	1620
gacccacgt gagatgggcg actgccccac	accagagaac tcccaccgg gagaggccag	1680
tgtgcattcc cagtatagac gccctctccg	tagctacaca tgtgccggct ccagctctga	1740
acctgtccac agatgcaagt ccgaaacact	cacaagaacg gccccgagct aagtttgtga	1800
ggcctctgcc acacgtaaca caggaagtgt	tttcaagtgg gatcatcagc gactccaaag	1860
caggcattat gttggttaaca ggtctgacag	atcatgggaa aatgtcttct taaaacatat	1920
gcaatagtac aacgggcttt ttagccattt	taactgactt ttccacagta agaaatgcaa	1980
atgggtcagt aattgtactc agcccaaat	ctggaatctg gctgcaaatt tatgaactat	2040
gacacatcca caaagatcag taacgtatgt	gctcttgtag atccacagac caaagcagga	2100
aaaaaagatg tattttatta aacagcatca	gatctctgca aattttaaag caagagaact	2160
cttcaatccc tgaaatagag tttagaaatc	agttttccgt gaacctttga aacaccggca	2220

US33026.ST25.txt

ccttcgataa	caaattaaca	ctcgggtccc	tcttccgtcc	ctgctggttg	aaaagtggtc	2280
agatgccaaa	gatttataac	tgggacactg	ctttatgttt	ttttaaatgc	tttttcccaa	2340
atagctgaca	atgtgttctt	tctaaaataa	agaaaatcta	aattatgcaa	gccaagtttg	2400
cccagcgcaa	ggatccgatg	cgctcctgct	cacattctca	ggcagttttc	cccagtagca	2460
tgtaaccccc	gccgcgggtc	aggcctgtcc	ttcagcgcg	ctgccagact	aacaggataa	2520
ccgaccgcca	ctgtgcaagc	cactcggcaa	acacagctgt	gctccaacgc	gcctccacca	2580
cacagccagc	acccattctg	acctgtgccc	cgacacccta	ccatcactgg	gcgggagccc	2640
atgcagccct	caagaacacc	acggtgcatc	cacctgttga	ggtggcaatg	ggccgagggc	2700
cagagct						2707

<210> 66
 <211> 2232
 <212> DNA
 <213> Homo sapiens

<400> 66	
ctccaggtaa	ctctcaggcc agcagcccaa aagatctttg agaaccactt tcttattcaa 60
gaaagaacat	ctgctgaggt aacacccaat ccctaaactc cacccttgga gcgaagcctc 120
cacatgtcca	gggggttctg cggaaccag gaagaggcta acacagggcc tggagatgca 180
ctgaggggag	caggctctag aaggaaacca cctggggacc ctgaaggagg gacagaaatg 240
ctacttaccg	caatctctgt tactaaaata tcagtaatac ttcccaacac agtgacaaag 300
tcaaagacat	tccaggcatc tctgaaatag ttctagagaa aaagaagagc agttagtgcc 360
agcggctgat	gagggtctctg ttggcaaaga ggtatatata ggtggtggcc ctgattaaga 420
aagcgggtgag	ggtgatagac cctgagcaca gggcagacag gccacccag ggggcacagc 480
acaaggccag	aggtaagcag atgtcaaagc cagggacaca gatacctctg ggcctgggca 540
gaggcaggac	taagagccat gtgtccaaag aggaagaacc cagccctgcc tccctcccag 600
gacctaggct	gggggcagag cttatgtagc caagagtctc agaacagccc cttccccagg 660
gcccctgtag	cattacatat actctgggta ctcggagaat tcccagctcc aaattgtgag 720
ccccaaagg	tcgccctaca gatggggaac cagaatatag gttgtcaaaa ggcaaagcag 780
ggaccaaagc	acgtaccagc accccaaagg cgatgatctt cagcacgcat tccatggaga 840
acatggatgt	gaacacgatg ttcaggcatt tcagcatcag ctcgtactca taggggtgcat 900
catagaactg	cccggggaat aggcaactgtt ggccatgggt ttggcagccc caagacaccc 960
catctgggac	cactatgacc aagcaaagcg ggcagacaga actcgatgcc tgcctaggcc 1020
tgggacaccc	cttcctgctc tccccgagtc ctcccagaac ctccccactg tcccagccca 1080
cagacaacaa	agggaaacag gattccacag gcatcccatg ctggccagga tgcaaggcca 1140

US33026.ST25.txt

```

ctactgcttt ggctcatgca gggaggaaga aggctgactc tccactcagc ctcagggtta 1200
gatcccaatc cctagcagcg ccaactgccct ctgcgctgag cccacacac cttcatcatc 1260
agcaccacag tgttgagggc tatcatggcc atgatgaagt attcaaaggg cggggagacc 1320
acaaatgtcc acgtcttata ctggaacgac tgccggtttt ggggcatgta ccgtgtcagg 1380
ggtttggcgc tgatggcgaa gtcaatgcaa gccctctgta aggggagaaa ggagcacaga 1440
gactcagaag cagaaaacct acccgacggc atctactgca cccagccctg tctcgccagg 1500
cctcacaggg agccctgaca acagaagaca aattgaagca gccagacct tctccaagca 1560
ggcctcaacc agccaaatcc ggtccctctg caggagaaag gaggacctgc ccctgtgttg 1620
gcagacggtg gcagccaaag ctgaccacgc tgtgagtgat ttgtgtgcag gagggagacc 1680
tgatggcgct gccacgctg tccactgcaa gactccacag agcgccacc tacctcgttc 1740
ttctccaggc tgcattcaga catcaccttg tccccctgct cctggaaggt gatgatgatc 1800
aaagccacaa agatgttgac gaagaagaag ggaaagacca caaagtagac cacgtagaag 1860
atggacagct ccatgcggtg cccagggctt ggaccctgct cctcataggt ggcattccacg 1920
gagtgtttca gcaccctggg caaagaggag agcaagtgtc aggggaaccc ccaaaggaga 1980
cagccctaag aactcaagac ctgcaccaca aggggtgggtc tgcttccatg cctgagccca 2040
gggatagagg gaggaaggga ggccgagctc aggggctgcc tgccccagct acggagagca 2100
ggatgagcac tcacatgggc cagccttctc ccgtggacac tgtgaacagc gtcagcagag 2160
cccagagcac attgtcgtag tgaaagtcgt atttcttcca ctgcctgggc tgagcttcca 2220
cttcctcctt ct 2232

```

```

<210> 67
<211> 2278
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> MISC_FEATURE
<222> (1473)..(1496)
<223> n or x is a, c, t, or g

```

```

<220>
<221> misc_feature
<222> (1497)..(1572)
<223> n is a, c, g, or t

```

```

<400> 67
agaagcaagc agaagtacag aaccagaggg cctcaatcag ggccccctcca agaaaaagcc 60
aggacagacc caggcagctg cctctacctg tcagggacgc aggaattagc aggttctggg 120
gactggacct cccacgaccc tactgaggcc gggccagcag tgtctaggag agatttcctc 180

```

US33026.ST25.txt

ctaaggcggc	ccccgttctc	agaagcaaag	ccactctact	tggtgggagg	tgaggggtggg	240
agctgaggac	tcaggactga	gtgggattca	ctcacacatg	gaacccttcc	caccctgctc	300
agaggccacg	tcccaccacg	ctccctgggg	aaggcctgct	tctaggggtg	gccctgcccc	360
ctgtgctctt	cctggggctc	cagcaacact	tggggctgag	cagggagagt	gagctacacg	420
tctcaggcac	cctgggtcccc	ttctttctccc	ctgactgtag	gctacactcc	agaatcagat	480
caaactcccc	ctgaaacgct	tccaggtggg	aagaaccacg	cctcctgtct	ccatcaccccc	540
agtgtctccg	acaccactc	tcaaaccagc	tcctccgcca	gctgagggaa	gaggggacag	600
gagcaggagg	gaggggatac	tgttttgtca	cccagtaa	gaggctttct	gggggagcgt	660
ccatctgggg	cctgctcctt	ttctcctgct	ctgaagccgc	ctggatgggc	ccaaccctt	720
ccccctctcc	tgactggggg	acccttggt	gcagtgttcc	cactcccaag	gcctaagctg	780
atgctttggc	aaagctctca	ttcctttatc	acagaaagag	gaaatagtgg	gaactgcagg	840
gggctggagt	ggagaggaaa	cagaggaaa	aatgccgctc	ttccagagag	gagctgcacc	900
gggagcgcct	cgcgatgtcc	ccggctcctg	ggctgtggcc	acaggtggca	gttccctccc	960
ggagcccttg	ctgccctcca	ggccaatggc	cccagcctcc	agccctcgct	ggtgacagcc	1020
tgctcaccag	caagctcctc	accaagggt	gaccatgccc	agctccagcc	cagctccccg	1080
ccccgctccc	agaggcatgg	caggaacccc	tggccgggga	cttggtctcc	ggcagcatgc	1140
agccccgatg	gggtgaaagt	ggatgggcgg	ggggtgaggc	tggagatgaa	atgaccaag	1200
aggggctgct	ggaatgctgt	gatgtcaggg	gcagcgtgtg	ggggagagaa	ggcattaccc	1260
cacgaagctc	ctgccgagtc	cagcaagagg	aagacaaaga	gaacagagtc	agtggcacca	1320
ggagcagccc	tcccagccgc	tcagagagat	gtggaccctc	cctcatgtct	gtcgtcacta	1380
ggggctcttc	ttgtctctgg	atctcacccc	acaaccttcc	cggcgtat	cccattccca	1440
gctgttgctg	agccccccga	cattgcccta	acnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1500
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1560
nnnnnnnnnn	nntgtagctg	agcccccgac	aatgccctcc	acgcagttat	ctgaggaagc	1620
caactccatt	tccagccaca	gcagggccaa	gtgcactgct	caggagtcag	aggagacgtc	1680
taatgcccc	aaaggggaag	gcgaccacca	gttctgcctt	gggcgaaaca	ccagaggtct	1740
ccctgggtca	ggagcagact	tgctcagag	caggtcaagg	tgaagttgcc	tccaaggacc	1800
ctgggaggca	aacgctggac	acaccagagg	ctgtgcgccc	ggtcccagag	ccaccggccg	1860
caccagggcc	tcccagcccc	acatagcacc	caccctcca	ggcaggcg	gatgggtcca	1920
gggccacagg	cacaccagg	ccctacctag	tttgagagcc	acagacagac	ctcatgccct	1980
cctaacccca	cgcagccccg	ccccaaagcag	gcaggggacag	tcccacatgg	acagcaacag	2040
agccacaggc	agcccaggga	agcccacaag	agggcctctt	ccttattccc	tcaccctcac	2100

US33026.ST25.txt

gccccatcgtg atttctggggg ctctccctag ccagagcaga gcgaacgtta cttacgagaa	2160
agcaaacgcc accagggcgc cactgaccac aatgaagtcc agaatgttcc acaagtcccg	2220
gaaataggct ccagggtgaa gcagcagtc ccagtcgac atctaggagg gagaaaca	2278

<210> 68
 <211> 2376
 <212> DNA
 <213> Homo sapiens

<400> 68	
actccatccc tcctggaaaa ggactggacc ccaattccca ccattgcttt tttgggaccc	60
attatcttcc ttagcttcc atgcatctac agggtagtct gggcttccact tcctcagtgt	120
ccctgtatga aattaggtgg atatagatta gtctgatgta ggaatatcac actgtactaa	180
ggtttagttt gtatgttatt ctctcaagta actgatcttt caatccaact aaacacttcc	240
tatgtgcttt aagggtgggtg gaattacaag catagcaagt tatgattggt cacggatttc	300
tttctctttt aaatggtgac ctactgccc ttgtacctac tcaaagcaac tttctttagg	360
aaaaaagacc acagtctact ttcctaagca taaactcagt tctcattcca cctctaccac	420
ctgcaagatt tgtaggctt aagcagtcct ttaacttctt tgagtgtttg ttgccttgcc	480
tacttcattg gaagtaaggc tctggaacag ggaaggtttg cctccataag actaaaagtt	540
atgctaatat aagagactag caaaatggga gacatattca gctctcttct tgtggggaat	600
accttgccct tgaccaaaaag ccttgtccca gaaagagccg tgtgggtgtt ggctttgtgc	660
ccaacatgtg gctcctctgc catgattgat ggcttcattt aagaaacagg ttttaggatt	720
ttttccccta aaatcttatt cctgttaatt atcatggac aactttacct tagctcgttt	780
aatacacagt cacctggtat aaaagcatgt gaaaaccccc agggatcgta accacattta	840
tgcatcgaga aaagagagtg aggccaagat tttgagatgt gttcaaatgc aagaagcttt	900
taaaatgcaa agtattctaa aactgttgaa agttgaagct aactgttggt cccttggtga	960
aggtaaaaag taaagcattt ttaggaaagc acttttcctt atgtgtctaa ttttgggaa	1020
ctgcatagga gaacagttta ataggaaccc tgatattgac agtaagatat attcttaatg	1080
tagtaaccag acccagggca gaatttgcaa acccatggta ggcatacagg tggctgaaga	1140
agaatcggga cagcaagatc tcttgagat gcaattccat tcctccattt gatacagatt	1200
aagatttctg aaaaagacca tcctcctaaa ccctcatgga ctctgcagat aatatgaggc	1260
cagaaaatga ataattccca actcttgcta tctcgttact ggccagtgtg tctggcttcg	1320
ctgagtgtgt gccttctgaa gcgtacccta taattattca gcaggtatag tccagttcgt	1380
cctacttact ttagcaagat tacctttctt ttatttttcc tgtgaaaatc cttctcttcc	1440
ttctttcctc ctttgtcttt cctctttgtt aactttttaa atctaaagt ccttgaaaaa	1500

US33026.ST25.txt

cttgtttaca	tagtagtaag	aaggaaaatg	ttgacttggt	ctatcctggg	aaccttgacc	1560
ttcctgcatt	atggataaat	catttccctg	caggtggaag	tggaaaattg	cagatagaac	1620
cacattgact	cacattctcc	ttctacttcc	atttgagtga	gcaccaagta	tgcatacaga	1680
cttgagatta	taaagttggc	ttaatgatga	gacaggtttc	tcagtcgggt	tttccattgg	1740
ctcgaagttc	acaagcaaag	ggtgcacagc	gtggggggag	cggggatggg	aaggagacac	1800
gtgggagccc	acacccagcc	accagagctg	gagacagtta	gagctgccac	tgggcacacg	1860
cccggagtgc	atggctcttt	ctctgactgt	gcatttggtt	ttaaccttct	acaatgcagc	1920
ccgcccctgc	tcccaacacc	caagccttga	cctgtgacct	ctgggtacgg	aatggcagag	1980
agaccagtcc	tggggaggcc	ccgatgtgcc	cctccacca	caaagccag	aatgacatgt	2040
ggcctggggg	taaggctagg	gtccagcccc	atgcccatgg	ccattccaac	cccagggtag	2100
tggtcacagg	tacattctac	ttattctggg	ggcctttgtg	cctcctctca	ctgaacactc	2160
ccctctgcag	agaggcagcg	ccaggccccc	ccaccttcag	ctgtgagcca	gttccaggaa	2220
gggccctcac	ttactttgtc	cagggtcatg	tctgggaggt	tcggggccac	gtcaccaccc	2280
tcactctccc	ggtctgaaat	ggggtctgac	gcctcgtagc	catagagcgc	aagcagctca	2340
tcaaagggca	tgctggttgc	ctgagttggg	gaaggg			2376

<210> 69
 <211> 1896
 <212> DNA
 <213> Homo sapiens

<400> 69	
caggaaatag	gcaaacacac actggaagga ggccacatgg ctgtttttta acattttaat 60
ttcaacgtgc	cagcatttgt ccaaattgaga tgatacaggc tagaatgcac ggcggaattc 120
cagactggac	tcactccata agccaactca tcactgcccg tgaacatgaa ttctggtcct 180
cagagaagct	gacattgttt ccctgaacat tcccgtggtc tccttctgaa agccgatgac 240
catccaaccc	tgactcacct gaaatatcct acgagcctcg ccctccgaga ctgacgatta 300
ttaaccaccc	acacggaaaa agaaacagcc cctccatcac ccacatcttg tacacaaaaa 360
aatgccacca	ctaattgccat aaattcaggc aggttcctct atccaaaggc taaactgctt 420
caggtgacct	aaaaagtggc cagcctctc cacgtaaaca catccagctg acacaggcta 480
ggatcgagtt	ctcccacggc cttcctatcc cgtctctaatt ttactctctg cttttccctg 540
gaatgtgcat	gagaaataaa ctttccaaac atttcaaaag tcgcactttc ctcctttatt 600
acaaccatgc	ccatttttaa cgacactctc ggtggcccct gacagctacc tgggtgagata 660
cacagcatat	tgtgccatt gaatgaagat acttctgaca atgaggcttt ctcgtgaaat 720
aaagtttccc	gtctcataaa actgagaatt ctctggaaag agctgagtgg aaatggcttt 780

US33026.ST25.txt

gaggagggca	gtgattcact	aagttattga	gaactgaggt	agtgagggt	gagaccaagc	840
caagagcagt	caaggggtga	ccgactgcac	cctgactttt	gttgtcaagc	agagagcatc	900
tctagatcct	gttatcctct	aaacgattta	gagcaagccc	tcgttgcttc	tcaaccagga	960
agtgaatcgg	tttagatcct	ctaagccacc	cacattcccc	aagccaccta	caatctttct	1020
tcccaacgtc	cacgagtaga	atctctgtca	acgctctagg	aagtcctggt	aggattttaa	1080
gcagagagac	cacagccgag	gtgtttctca	gatacacttc	gccaaagtcca	aatgaaagtc	1140
agtcaccacg	tctaaatggt	tccttagccc	tacagaaatg	ggctctccatg	gcaaagcctc	1200
agaggtgcta	aatacgtata	ttagtgttgt	tagcttcgtg	atgggaggaa	atttgacgtg	1260
aggtttaatt	ctgaataggg	taggtctcac	agcacctgta	caacacagct	ccagcgtact	1320
tcagaggtcc	ttcgggcaag	agcggagacc	accatcgaga	gtctactaga	atgttattac	1380
tgctcgcttt	tgccgacagc	ttcaagggt	gaagtgcact	ctgaagaaag	cccagaaggc	1440
gttggtggag	aagttggggc	gaggggcttt	aaggtggatt	tctatactct	acgttttttg	1500
tgtgaggcac	tcaaattgat	taagcataaa	tagaggcaca	aggttcaaca	gcgtttccct	1560
ttgaaaggac	cagaggagat	ctccacgcaa	caggaccacc	caacaggaca	ttgtctaact	1620
acacacaacg	cccaccagct	gccggattac	tgcaggaacc	ggtcacagctt	ctcctggatg	1680
cgagcaaacg	cgctcttccc	catgtagtcg	atacggcctt	cctcccactt	cctcctctct	1740
tcctcggggc	tcaattcctt	caccttctct	tcgatggaga	tctgggaaac	agagacggcc	1800
aggtcgacct	aggggaagaca	gtcagtggga	gatggttttt	gcagctgtcc	attatcgagg	1860
gaaagactgc	taaaacccat	ccagtgtagg	gtccccg			1896

<210> 70
 <211> 3700
 <212> DNA
 <213> Homo sapiens

<400> 70	tagacgagag	atggaacaaa	caacacaacc	accccatgcg	ggcacagaag	atttacaagc	60
	ttaatctcat	ggacagaaat	agactcggcc	ccagcacagc	tgcagagcac	acattctttt	120
	caacacacac	agctcacttg	ggaactggcc	acctctcggg	ctgagctgca	ggtctcaggg	180
	ggttctgaag	gaatcacagg	gactgctgcc	ctgccccaaa	cgtagccggg	gaggccaggg	240
	atctacggta	aacacagaag	gagcaaaaac	agctgcatgt	atgtggaaga	agaattctaa	300
	agccagccgc	ctgttcatta	aaaagttcag	acaaaccaga	ggggcctgtg	gcggccaggt	360
	catccacttt	aaatcctcct	cagtacgtgt	actttaaaaa	gaacttcgta	aagagcccgt	420
	cacccaaagc	gcactgataa	agggcagacc	ctgactccca	acaagctatt	tctgttgagg	480
	gcactgagaa	ggcagctccc	tgactcatca	caattccaga	agtcacagat	acatgtgtcg	540

US33026.ST25.txt

cccttccaga	gtacaccac	agttttgcaa	aacacgtcca	tatacgacca	aaaacaaagg	600
ctgagcctaa	cactgaggct	gcctgttttt	gcgtagaagt	gcgtgcgctt	gatgggtgca	660
ggtgagtgt	ccccgagaac	acaggccacg	tgcaccgtga	cacatcctct	cgcgacacca	720
gcctcgggca	gacccccgca	tgtgcagagg	gtgcgcacag	caggcagggc	gcggtgacca	780
gcagaaatga	ccctcgcccc	cacggcagca	ggaccggaca	ccacgatcaa	agccacagag	840
gaggtgccgg	agcagcaggg	ggccggcgga	agggacgctc	agtacgggct	gcaacgcaca	900
gccgtgcccc	caggagcccc	cgctctgcag	cggcccccac	tctgcagcgg	gaggcggaag	960
cacgggaggg	tgtggtatgg	aatcagggac	ggggggtttg	gccgggacgc	acactcatgg	1020
attccagctg	agccccctgc	ccaccagat	gacggccacc	ccctggaagg	cagggcctgc	1080
tgaagctct	gagcattctt	ctcggcccag	cacttgactc	ccagggaccc	tctgagaggg	1140
ctggtagagg	gctgccagct	acacctgcaa	accgcacgct	ggacggctaa	acacaggagt	1200
caaaaaggtc	ggtgtttaca	cagaggagcc	gaacacggag	atgagaggcc	ccacgtgtgg	1260
gtttaaaaat	cccctctcta	gcaaagaggg	agaactggtg	tggagggggtc	aacacagaaa	1320
cgcagcaggt	gcaggtgtct	gagtaggcca	gagctcacgt	gggctaacat	tactcagac	1380
acatgactgc	agccgagcaa	ccgggcctca	acggacgctg	agagacgtcg	gctggggcct	1440
gcaccacac	ctgcagccca	ggcactggcg	cctgcagcca	cggctgcagc	gaggcgtgag	1500
tctccacaga	gctcgggaagg	ctgggctggg	ggacgtgggg	atcattctgt	ccaccagcca	1560
aggggtgacg	gtggatgccg	cgcaacacag	cgaggggagg	atccggcacc	ctccctgcgt	1620
ccacaagccc	ctggcggatg	ctcctgagct	tggctcttctg	tgtggacgtt	cccacccggg	1680
cttctgtttc	ccgttaaccc	cccttgctgc	agctccctgc	cagggtgggga	acccaagccc	1740
tgccttctcc	ctgccactgc	ccagggagtg	gcatcctggg	cagcgtcctg	gccaaaccaa	1800
aggctgcaag	ggttttggtg	accactggcc	ttgggagggg	aacggcacgt	gccctggcgg	1860
tgagagcagg	aggtgcgtca	gggacgcccc	gagcccaggc	tgtcaccacg	ctgaagtcag	1920
ttccaagtac	agcggggctg	ccgcgtaggg	gacggcgctt	tcagccatgc	gtggtgccgt	1980
gtagggtctg	tgcgtccacc	cgaaggaccc	cgtggggacg	ccggacagtg	tctgtgtgac	2040
caggacaggt	gaagaggggc	gtctgtgtgc	tgagtcagtg	tgtggggagc	gggagagtca	2100
ctccccaggc	ggggagggcc	aggctaggca	gcacagctgt	cctgggctgg	gaacaaggtc	2160
tgagctgtcc	tgctgttgcc	cggggacaga	aggcccgaga	atccctgggc	aggaggcgca	2220
ggcagtggct	ccggcaagaa	gagctcagcc	aagcagctgc	acggccccac	tccaggtaca	2280
tgctgggtcc	tacagtgaga	gcatgagccg	tgtaacacgc	catcgtcaca	cgggagcctc	2340
cccggaccca	cggtgagagt	acgtgtaaca	cgccatcgtc	acacgggagc	ctccccggac	2400

US33026.ST25.txt

ccacggcgtg aacgcattgt gttccgttcc caaggccggc ggtagctgaa cgccccacc	2460
ccccgagttt ggtttgtcaa ggatgccggt gacaggggaag tgggcagtgg caggaggag	2520
gaggagcttg ggttcaccat cggggcaggc agcaccgcc aggggggttag tgggaacaga	2580
agcccagggtg ggacgtcgca cagtcagaag atcaagctca ggagcaccgc ccaggggctc	2640
gtgggtgctg ccaacgttgg ccgtggaagg ctgtgccgt cagaggaccc ctgaaaacag	2700
taccgtgctg cccggccggg agcgtccgaa ggcggagggt cggcaccaca acacgtccag	2760
tggctccaac acgggtgctc cctgacaacc ctgagggtgt gtccaagtgg ggtggacca	2820
acagacagag cccacactca tgcgcggagt gaaagcagcc aggaaacgtc cccttctccc	2880
ccaacaccac cccacaaaat acccccaaat atgcctgtaa ttctccacc acccctcaga	2940
caacatgcat ttcacacgtc tgtctcact ccctaaaaac gtggaaacct attttctgta	3000
aaatgaagca aacttctgta aacggaattc atgatttccc agaaactgac tttttaaaaa	3060
taaacagtcc tcacaggtgc atcgtacca cagccccca cagaagagcc agggccccc	3120
tgcagggtg aagggttcc tcatccagcc acgtgcgagc taatcacctc attgactctg	3180
cgaccagcga gcccgcaccg cccagcacct cccaccatct agagcaaata ccgcacgagg	3240
ctgatctcgc tcttcgcagg ttaagaggat tttaaagaca ccagcctcgc ccttaccac	3300
ttacaggcaa aatgtcaaaa cctggaagac agagggtcaaa aactccgaag gagtgcacaa	3360
gttgatgtga gatcttacag aaaaaatttc aattaaaata tcaacagaaa gaagtgggtc	3420
ttctccccc ttcaagcagg atgccttggg tcaccttgat gttaggccac tagttccaga	3480
ctcctggaac tgagtttgaa aagcgcgtct gatgtgccac gtgggtgtga ggcgcccgc	3540
acgcacacc tgtctggatg aaattcggat cagattcggc cgcagccaaa ccctaaattc	3600
tcaaattata ctgggattgt cacaggaaga ctcttacacg tttaaatcac atggtactcg	3660
taaaactaac tcatacaata tacacggggt acagacacaa	3700

<210> 71
 <211> 2529
 <212> DNA
 <213> Homo sapiens

<400> 71	
ccacagcttt gatctaggga aaataaactg attcagtcta agatgggtgt acttgaaaaa	60
tctgaaaaaa aaatcctatt tggtcattgc ctacctgtat atcaaatatc cacagaaggc	120
aaatagagtt gtcacacaat caactaacac ataaaattat ttgaaaacca taatcaagag	180
gcatgatcct ttataaactg ctcaaaaata ctgtgcacac cagggtctatc ctttttgatg	240
tgactacagc taaatctgac atcagacaag agaggaacac aaacacaagt atattctcta	300
gttgaacttt agggcataat ccatatgaat tttcatgtgc agatgagatc ctgggccatc	360

US33026.ST25.txt

ttctcctaac	caaacaagaa	aagcaactct	gtgcacataa	tacgtgaatc	aatttctcca	420
gccttgga	cttccaatct	caaactggta	ccttctcaca	actggtcata	caagcagttc	480
tccttgagta	cagaaaagag	tatgaatata	taggaaatat	ggttaattag	caggcctaac	540
gatgacactg	gtcatagtta	caaaatttca	aaataaaaag	tgtgaaaatg	aaacttttag	600
ttattgccta	gtttgggcta	caagccttaa	aagcttgcac	tctgcaatga	cttcataggt	660
tcactaaatt	tataacatca	cttggttttg	agttgagaaa	aacgttttca	gatccattta	720
ttaaggaact	ttggagatta	actacttgga	cctcctggct	gattgtcttt	cacctaaccc	780
agacagaaat	gtttccatct	gacccttaaa	atttactgaa	gacaatatta	ctacattttc	840
tgcagttatt	agctaagagg	ccttacaaaa	ggaactgaaa	aggggaagcag	gccaatgaca	900
aaaactgggc	catgattatg	caagattcaa	caggttatga	gtgaggtggt	tcaaatccct	960
ttctctttta	agatttgga	ctgacgttgg	atagctttct	agcttgggtc	ccctggaaac	1020
ctgacgaagg	gagaccacca	gctgtgtgac	gagagactgc	ttctggtaaa	acgctcagcg	1080
aagtatcctg	tgtccaagct	aggagagctg	caaatgaatg	taaataacctg	ctaagagtca	1140
cagcttgggc	tccaagagcg	cagtgtacaa	cttgttcctg	ggctttgtcc	ctagccggaa	1200
cccaaggatg	ctacatgcac	agggaaactgt	taaaaagagg	gtgggtccctt	atggcttcta	1260
aagccaaggt	gactcctatg	tcctttttgtg	cagtctgtgg	ggactgcaa	gataattctc	1320
atagaactct	gcctaaagcc	accctctggc	atgctgtctt	gcctgtcaa	tgtccttcag	1380
agcaaactgg	taacagagga	ggcctttcca	tgttgtggga	gtttgtgtag	ttgaacccaa	1440
caccagctgt	gacgggcgct	gccctagcac	tctggagtgt	cttcagaggc	aaccccatcc	1500
cacattggca	ccaaattgtc	atagccatga	ctatcacaag	agtatgggat	tagaaccaat	1560
gaaggcaaac	cttcaaaaaa	tggtttaaga	tctttaaaga	catcactgaa	gtttaaggct	1620
gtgaatagca	aatatataaa	ggcagagtgt	tcactcatta	aaaaatggac	cttaacattt	1680
tcccaaact	tagctattac	taagtaaagg	agcaaagtat	catggtatag	aggggtaaat	1740
tttccagaa	gcaaggaaat	gtggctgtca	ttctggctgt	gcacatagcc	gctgtatggc	1800
cttgaataag	gtgcttctcc	ctacagatgt	cagtgtcttt	atattgaaga	ggatgggtag	1860
ggggagcagg	ggatgatgga	aagcacaatt	gaagtacagg	aaaaacacga	atttagaaaa	1920
atgttacatt	aataacagct	ggaaaaaaga	aaacaccaat	ttggcttgtg	tgttttaaat	1980
tgtaaaacct	gcaaacaac	acctatgatt	ctgggctttt	aagggtgagaa	caaaaacaat	2040
ttcttaagtt	tttgctgtt	gatgcttcac	tcaattctca	acataacctgt	tcgaaaactc	2100
atcagcctca	cagcctctgt	gtcaaacaag	ttctatctaa	ctaaacaata	ctttcagtta	2160
accccaggta	atgatatact	atgatcattg	actccataat	tccactggta	atctagtctc	2220
agaaaaaacc	ctaaatataa	gaaaaagtct	tatgtaaaca	taaactgctc	agttctctac	2280

US33026.ST25.txt

ttacaataga gaaaaagttt taaaaacaac ccacaaattt catgctaagt gaagaaagta	2340
ggattaagac aaaatcattt cagctatgtt ttcaaaaaac ctatgcacag aaaaagaaac	2400
agaatacaca gaaatatcaa gggggactgc aaatagaaca tctttttttc ctgttttcta	2460
aattttctta actgaacatc cattttataa tgaaaagcag ttcaatttaa gttgcatttc	2520
caacacatt	2529

<210> 72
 <211> 2446
 <212> DNA
 <213> Homo sapiens

<400> 72	
tagacacgta caaagtagct gaaagaccaa tgaatacacg gtctagagag gactgcttaa	60
cacgctgcat atagaagtgt gattttttttt ggtacaattt tcaagtgtgt ttctcattag	120
agcattttaa gtaagccaca gtgtccgttt gtatcaagtt agtactctga cggccacaaa	180
cataggcagg ctcaattctg gatgtcttat ttctttgcat gttaatcgtg ttgacacaac	240
ttgtcttgaa attaagttta aaatgaaata ccagtaaaac tgaaatgaat aaggccttta	300
ttagccagag aaaagaaaac aatattgaaa ctaaacataa gaaagtgagg gctgtaagtt	360
atcgtaaaaa ggagcatcta ggtaggtcct tgtagccaat gttacccgat tgcctacag	420
ctttgtccag tggctgtagc ggtcccgttg ctgcggtgag ctggctgcgt tgatgggagg	480
taagtggcct agctggtgct ccattcttga gtgtgtggct ttcgtacagt catccctgta	540
caacctgttg tccagttgca cttcgctgca gagtaccgaa gcgggatctg cgggaagcaa	600
actgcaattc ttcggcagca tcttcgcctt ccgacgaggt cgatacttat aattcgggta	660
tttctctctg tgcattggcct gtaatttctg tgcctcctgg aagaatggcc atttttcggc	720
ttcagtaagc attttccact ggtatcccag ctgcttgctg atctctgagt ttcgcattct	780
gggattctct agagccatct tgcgcctctg atcgcgagac cacacgatga atgcgttcatt	840
gggtcgcttc actctatcct ggacgttgcc ttactgttt tctcccgttt cacactgata	900
cttagagtta cagctttcag tgcaaaggaa ggaagagctt ctccggagag cgggaatatt	960
ctcttgacac gctggactgt aatcatcgct gttgaatacg cttaacatag cagaagcata	1020
tgattgcatt gtcaaaaaca aggagagtgc gacaaaattg aaaggtgcca gagttcgaaa	1080
cttatttttac tatccaaaac tcacttctac cagattcttt gttacgttaa cttttgtaat	1140
gaaacttgca ttttctcgcc ctcaacaccc cctcaacccc gcccaaccag cctaccccct	1200
agtaccctga caatgtattc attctcaagc aaaacatggg aattcagtaa cgttgactac	1260
ttgccctgct gatctgcctc cctgactgct ctactgctgt cctgaaaaat gcgaatttga	1320
cttaatcgcc aattttttca ttgacctttt atgtcacaaa acgagaggac acaaaaagct	1380

US33026.ST25.txt

atatgaattg	tttatcatta	tcaatatatg	tgtatgttat	ctttaaaaaa	acaaagctta	1440
atgagaacct	aattgtctta	accacacaca	tacatacata	actgcatatt	gaatttatag	1500
taattattat	cgctttttct	tcacttctat	ttaaaaattg	aaaattctat	acacattttt	1560
cacaggcatt	aagtatcaga	atattagcat	atacttaca	gtattttatg	cccaacttct	1620
aggatggcta	acatttgact	tttagaaaag	taattgtttc	gttttagagaa	aaaaaaatat	1680
gacctaagaa	ctcaaaacag	tttcagtgaa	gtgttaagct	acactaaaaa	ggggacacaa	1740
ttcttttctt	tgcagattgt	atagtgggat	atgttgaagt	cattctcttc	actgtcacac	1800
aattagcaat	ttaaaaaaca	atctttttaca	agtctaaatt	aaattttccat	tcacaacaaa	1860
tagagccatc	aatttatcat	atttcacctt	ttagttcaac	ctccttcaaa	atttaaaggt	1920
cacagtttac	cagactaaac	aagtgaataa	ctctcctcaa	taaatcttaa	agtctgaaga	1980
gaaatgacaa	gatttctttg	ctgaaataaa	atgggaggaa	agtcacccca	ctcaccaatg	2040
ttttaatgcc	atatttgcaa	aacaggagta	acaactacag	gttgcatagt	acacagaacc	2100
tattaataaa	aataaactct	cagcaaaact	gaatgatgcc	acaattccta	agacaacaaa	2160
ataaaaatcc	cgtaaaatat	gaaaagagtt	catagaacca	aatgtggttg	gtttgtccag	2220
taaatgttat	aatgaattaa	tatcagaaac	tttaaaaaat	tatattccat	gaaaagaaaa	2280
atatgaaaac	tgtaatttgt	atcctagtta	tctactaaag	tttagtatct	aagatacaaa	2340
atntagtatt	cattatacaa	agtggaaata	tagttggctc	aagttaaaac	atgtatctgg	2400
atagcaaata	aatgggttaa	attgcagtca	tacacagaaa	cagatt		2446

<210> 73
 <211> 2000
 <212> DNA
 <213> Homo sapiens

<400> 73	
tgctaaattc	atgggccata
ttttcaacat	ctaattctca
aaaagttaga	atagtcttct
60	
gatttggtag	gtagaagtta
atgctcactt	taattgctag
gttctactgt	ttcaagactt
120	
aatcagataa	atcacctagc
aactgatgca	tttaaacatg
atcaatttta	ctggcatctt
180	
tttttcccag	ggataatcta
attatttgcc	agtgggagga
tgaagtaggg	tgcagtggga
240	
aatagaatga	tctcctacct
gagccgaaga	accttacaaa
tgcataatcta	ctacatgtaa
300	
attaaactat	aagtaaacaa
aatagtttac	aactttaaaa
taatgctgcc	tgtttttttc
360	
tctaacttca	cctgaattat
ttttctttta	ctttattatt
ttgatttttt	caaagtatag
420	
gaaattgcct	gtaaaaacaa
ggtttcatac	ttgggaagaa
atttctcata	gagtgaagca
480	
tttttttttt	ttttcaaatac
agttgtaact	aaccgtctta
aaatcacatt	gtggctatcc
540	
atgcctgaaa	tatgtaaaca
gaaaacagat	gacatccaca
attttccttt	cttccttaaa
600	

US33026.ST25.txt

acaaagaggt aacttcactc tttcatttac cttctgatgc acaagtatga gcttctcttt	660
ttagttcttc taatcagctt agatactaca tgttatagct tgtttctctc cataaaatga	720
aggtcacttt tgatcttttc cagggctctc cttcagttcc tttttgtcca aggctaacta	780
cactcctctt tgtctagtga gccagcagct gtttgaccaa gaaccatttt aggaaacagt	840
ttttaaagat acctcatgga agcattctgt tgtacccttc cgtacattat tttttctcag	900
tctgttgcat taagattaga gactgctttc tttttattaa tgttttgaaa tttttgtttt	960
agtgtccaaa ggcttggtca aatcatgaat agttctattt ttcttctgaa aaatattggt	1020
ccttttagtga tttatagtta agagatatta tccttttagct gtcatacatt tcaaaaatac	1080
tttcctgatt ttggacttaa aattgcattt atccttttta tcttaacctt caaaacaata	1140
atataacaat gattattata atttgtgccc gtttttgcc tctttgaatg acgatggctt	1200
tagtatctta ctgctaaaaa atgttgcttg tttgtaaaat agcctttatg cagaaacctg	1260
cagcaagtat ccaataacca caacaggaaa aatctgagga attccgggct tttcaaattt	1320
ttgtattacc tagcaattat atgttatttg aaatttgatt agaaaaaggc taaaacaatt	1380
gtttgagtct ggtaattaaa aagtggtaag tctttgtctg atctatgatg gttagtagtt	1440
tgtattttgt ggtaaaaaca atacttactt tccattttca aataatttta attgttataa	1500
gttattataa gcgtcttgta attagttttt actgcctctc tcatagcttt ggttatatct	1560
aatttctcat ttataatatc acttacattt gctttattat atttgtattt aatctatacc	1620
agcaagaagg cacttaatat tgcaagcttt taaaagaaat agggcttctt cttttgctaa	1680
tcctctttgt aattcctttt ggcttttttg gagaagttat ttctactcaa accttgttca	1740
ggtcacaaag aagctacaga tgaagaacac gaaaaaattg ttgggttaaaa taaaactata	1800
actaggctta tttacggtga gtaatttctt ttcattgctc atttaaatgt ttttaccta	1860
aagtaatgat gtaggagaag tctaaagcaa tgggtattaat atacaagtcc cagtgaaaat	1920
gtgattcatg aaactctttg ttattttttg ctgcatgtac attgttacga ttgtgatgtg	1980
agatgaacat tttgcatctt	2000

<210> 74
 <211> 1865
 <212> DNA
 <213> Homo sapiens

<400> 74	
tcctgaagga gtgtatgaca tacgtacaag gaaaaaattg aggaaaatga gatgaaggtc	60
tgcagggtatt gagagggtgga agcaaatcaa taatgcaaga ttttggtgcc agttttattaa	120
gttctccagc tatgttcaac agcctcggat agaattggagg aaagcagatc ttgggaagggt	180
gaacgtggaa gacagacaag acagtgaagt gttctcagcg tccccaggga catcatgaga	240

US33026.ST25.txt

```

ctgaattgaa gaacaggtga agatggggca ggggtagggg agttagtcat gatgtgggga 300
gggtgagcaga ggttccagat cctctggaag gtgtatttca acaaggctgt ggggtgggtat 360
gagcaagttt gtaagcgtga atgcacagca gtttcaaacc atgacagggc ccgaagaatg 420
ctgcaggctg cagatgatgc agctcctgtg ggggtggaagc aatcctatgc atgtggaccc 480
ctcgggtccg actggaaaag gagtaaacga ttgttcgacc aaagcctaag cttcaggagg 540
aagagccttg ccttcctcat cctaccttat tatcattaaa atgagctgct ggttaagaat 600
ttgaaagcca agaataattct ctgatacttg tcagaactta gtggtttcta aatttgtagc 660
agcgtaagca ccaaatgcac ctcatcatt tgcttgacta aactgaaatt ctgacaaac 720
caggcttccc acctctcact cctgacaacc ctggggttac tgccactgca gtaacttggg 780
ctggaaaacc ttcagaaaac tgtctgtctt cactccaccc ctgcacagcc ctctcttcct 840
ccaaagatct gtggttttggg acaggctagt acagaatttg gttctgggca ggtacacttg 900
gcttccattt caaagcacc aaagtcaacct ggcaacctga aggaactaga aaagcttctg 960
ctaatacagtt gttggtcagc agccctgatt cttgtggacg gcagggacga taggctctcc 1020
tggaagcag cggtcttttg aactgtgggg accacaaaag ctctccctgt gccggcacca 1080
cggccctccc acttcatcac tgccgtctaa ctgccctcaa actgtcactc cttttcctga 1140
atcattagtt ttcttgga aaataatca gaccataag gaggaggaga gtatgaagga 1200
aaaaataaaa ccaaataag caaaattctt ccagtcaatg ggggtgggga aataagactc 1260
atcagcagcc cctcaaaaat aacatgatta tcttttattc ctttttactt ttggagttct 1320
gttgtaaata cttacattac atataaaagc agtttaaaaa aatttccata gtgccacaac 1380
tacttactgg ggataatgtg ggtataatct tgccctgcagg caagagagag attattacac 1440
ctattttcaa gctttctgtg actctcaaaa atagatgttg acataggttt ttgaatgctt 1500
ctggaaatgt taaaatcatt atgtgattat tcaaaatata gtttgccatg tgatcaaaag 1560
ctaataaact cttctatgtt tattttgttt taaggcataa tcggcacaaa tgcattgttc 1620
cagtggctta acattgtatg taaacggtat aaacagaaat tgtggaaatg tgtgttttca 1680
cttgattcaa acagagaaa agttccaaat acgaaaatga actaaataaa aaatgagatt 1740
ggattgctgc ctgaaatttg taaatttaaa aaactaactc tctaaagtaa attacttagg 1800
gaccttcata tttaacaaat cttctgcata ataaacttag aattaaactt agccctccta 1860
catgc 1865

```

```

<210> 75
<211> 1517
<212> DNA
<213> Homo sapiens

```

US33026.ST25.txt

<400> 75

```

agcttctttg accaagctga ctacaggatg cccttgatgg agagaccagg gatcatcacc      60
ttcaagttcc tggctcttct tcttgaacta aagactcctt ggctttgctc atgttggtt      120
tagccaccag ttgctttaca gcctcccaca ctcatgtctt cagcttaggt atcagaagat      180
acttccattt tttaaaaatt atttagctct ctcatgacct cctgtcagca gatctacctc      240
gcacctcatt tccttaggct gatacctaata gatgctcaa cccacaggag gggcatctag      300
ctaactggta ctaaataaca gtcacttaaa aggtagttaa aatttcacac attaaagacat      360
acatgtttgt gcaaggcaga ggttttcttt cttgttgact gtattttcag gttgtagtta      420
cagataccca ttaacaagcc tgccttctga aataagatta tctcagtcaa gtatttcttt      480
tgttatgtgt ggcacatca gacacatctg caatgatccc aaaaaaagat atgatcagaa      540
ccacatttat ttaaatatgc aaaatgctgc aggagagcta ttggctgatg cataaataca      600
aattctgttt ccatctatga gaattggagt gaggacgggg agtcacaacc atccacaagt      660
gacactgact taataacata gaaaatgttt cagatttctc atgtactggg gaagacaaga      720
gtggtgagca caatcagggt aataaaacat ccctcagctc aaagagataa ttctaataatc      780
atatattgtg catggagtag tgaaggccaa atacaagcaa cttcacatca gtacatagcc      840
tacacaagac agccacaagt caggaaaggg ttgtattgca ttagcaaata attgaattaa      900
tagctaataa tctcctagaa gaattatatt aaagactttt aattgacact ttatcaacca      960
taatcaactc ttttttttca ttgctctgct catttatgtt ccaatgaata agactcaaaa     1020
tcctgaggca gcttaaagta tattttacat cagtcaccat ggtcagtgtg gcatacattt     1080
tatgatttga aaatttgtaa tagcctttca taggctaatt gctgagccct ctaccagagc     1140
taagaaaaga gtgcacagtt ttgtacattg aaagaaaagg caaaacacag taaggcaagc     1200
agcagtaaaa tgagacagct gtgtccagct cccagcaaac ccctgccaag aaagcccttt     1260
atatgaaaat gaacatttga caagaaagca tattaaagta ttagcttttt cattcagcat     1320
agggcattct tttattttta aaaaatctta ggattgctct aataataaat tgcctaattgt     1380
gtggacagca tgattccatt tgtaaaatgt ctatttagca ttgcttttca aaggcatgtc     1440
attgctttgt gagatgtact ctgagggtta aagatgcttt ccctaagaaa cactagctat     1500
ggagtaactg tcctaca                                     1517

```

<210> 76

<211> 1634

<212> DNA

<213> Homo sapiens

<400> 76

```

cctgcttgct tctgctcagc acctcataac ttcgtcttcc taagatcctg tcagccacat      60
tctgctgtgt tttctccggc cccaccactc ttctgtgcct catcttacac attctccatt     120

```

US33026.ST25.txt

ttggtgacaa agctggattc tgtctattgg cctcagcagg ctattctctg cctcgggtatc	180
taagtggctt cttgtcactt agataattaa tttcagcttc cttttctctg acagtgataa	240
cctcaatacc aaatctgaaa atatctctaa ctgcatgtct cttttcccct caagtcacaa	300
atcgaatcgg ccagatattt tagcacttac cgtaatttag cagcctccca atatctgagt	360
tcttttagtaa ctgagaaact ttggatgcta ttcacagaaa tttattttat ttataaacia	420
aatgtggccc caatttgtca acgttttaaat tgcctttgca acattgttcc tcaactccaac	480
ccaccatgga aataagtgtt ggcttaaaga gaaaccaagg aggacctgca gaattagaag	540
caggcaacia gaagactgat gagtattaaa tgggactccc aagagaagtt ttgcatgggt	600
caaccgtcct ccatgtctgc atctagctag ggcttagctg gcttttagat gaatggaatt	660
ctgagcctaa caaccaacag atacctttct ctgtccctta atgtcagcag aaggaagtgg	720
aaatgttttag gtgaatgaga aaataaaaaat agcacatttg aaagaaatga tcaaaattaa	780
gaccagatca gtatatTTTT tttcaagcca caccaagtgt cagatgactg gattagtttg	840
catctggttt tgaaaattct gtctcaacat tcaacagcca gcacctgtcg tgagcagtct	900
gaggcttttt caagtaagct tcaaatatct gctgttgaat gcatttgggt aaaccttggt	960
tctcttgaat gcacgtgtac agtatacact gggcagagtc cacagtgtga cacacattgt	1020
tgagtatgtc tcctttaagt gaagagtcaa ccatgtgcc cttggtggag gaagatacac	1080
tctgcacagt ccatgcttat gcaaagccac tgacccact ctggaacttt ttttttttgc	1140
cttgggggtga atatgctaag cttgggttacg atgagaacac agttactggt tttctagtct	1200
ccctaaccac aaaaatcaat accagcttag tttgcaaatt ttcttagcaa atcaagatta	1260
aatgcatggc ttggtttgaa attggatatg gtcataaata aaccctaagt tttaaaatat	1320
tgttaaacia ctgtcttctc atctccatac acatcatatc tgaccaatgt ctttatatgt	1380
gtattctatc atatctgttc acagaattct tatttcccat ttggcagaag aggaaagaga	1440
tctgcaaag aacaaatgat gtatcctggt gatggggcca atctttgaat ccaagccctg	1500
tccaagatg tttctattct aaatacagtg gaatcaggag aaggataagc tacaattttt	1560
tctcatgtgt atatatggag caggtaactg acagattctc aggtgagatt actgacaagc	1620
caggggttgc agac	1634

<210> 77
 <211> 2920
 <212> DNA
 <213> Homo sapiens

<400> 77	
gctcactcag gccagcgcg cgacaagaac ccccgacctg gggcctgggc ccccccttc	60
ctcagacttc gcgtgacagt cttgtgccac cccccccac tagggattca cgtgacagag	120

US33026.ST25.txt

acacgtgccc	ccctcgccag	ggcctggggt	gacaaccact	cgctgtcggg	gcacaaaaag	180
ctcacgtcag	gcaacgatga	ggagagggac	cggggtcctc	gcaggggcaa	tggctgccgt	240
caggcgccctg	agccgtacgt	accgtgtgac	tgctcctgag	aagatcctgt	ctatcatctt	300
ggtagaaaagg	gctggaaaagg	aatgcggttg	atgggcagcc	cgcaccgtgc	ctcggccccg	360
acgtcaccac	cccccggagc	cgagactgga	tgcggtgggg	accgaaaagc	tgagaggacg	420
cctgggtctg	ggagagcccc	ggggccccga	tgccccctgca	cggcccatcc	taggggcccc	480
ccacgctttc	ccgtcgagca	gagccaagtc	cagcatgaaa	tccacagagc	gcaaagctga	540
ccgcggctcc	aagaccgact	tgtaaagagc	agaatattca	ggcctcaaag	gtacagcttt	600
cagacggaga	gagagacctc	gagtgtgata	acggaaacaa	acacgtttca	accaaagggt	660
caccaacggg	agacgggagt	gagacctcag	caacgggagg	cgggagtgag	acctcagcaa	720
cgggagggcg	gagttagacc	tcagcaacgg	gaggcgggag	tgagacctca	gcaacgggag	780
gcgggagtga	gacctcagca	acgggagggc	ggagggagac	ctcagcaacg	ggagggcgga	840
gggagacctc	agcaacggga	ggcgggaggg	agacctcgcc	aacgggaggg	gggagggaga	900
cctcgccaac	gggagggcg	agggagacct	cgccaacggg	aggcgggagt	gagacctcgc	960
caacgggagg	cgggagtgag	acctcgccaa	cgggagggcg	gagttagacc	tcgccaacgg	1020
gaggcgggag	tgagacctcg	ccaacgggag	gcgggagtga	gacctcgcca	acgggagggc	1080
ggagttagac	ctcgccaacg	ggagggcgga	gtgagacctc	gccaacggga	ggcgggagt	1140
agacctcgcc	aacgggaggg	gggagggaga	cctcagcaac	gggagggcg	agggagacct	1200
cagcaacggg	aggcgggagg	gagacctcag	caacgggagg	cgggagggag	acctcagcaa	1260
cgggagggcg	gaggagacc	tcagcaacgg	gaggcgggag	ggagacctcg	ccaaggagag	1320
gcgggagtga	gacctcgcca	acgggagggc	ggagttagac	ctcgccaacg	ggagggcgga	1380
gtgagacctc	agcaacggga	ggcgggagt	agacctcagc	aacgggaggg	gggagttaga	1440
cctcgccaag	gagagggcg	agtgagacct	cgccaacggg	aggcgggagg	gagacctcgc	1500
caacgggagg	cgggagggag	acctcgccaa	cgggagggcg	gaggagacc	tcgccaacgg	1560
gaggcgggag	ggagacctcg	ccaacgggag	gcgggaggg	gacctcgcca	acgggagggc	1620
ggagggagac	ctcgccaacg	ggagggcgga	gggagacctc	gccaacggga	ggcgggaggg	1680
agacctcgcc	aacgggaggg	gggagggaga	cctcgccaac	gggagggcg	agggagacct	1740
cgccaacggg	aggcgggagg	gagacctcgc	caacgggagg	cgggagggag	acctcgccaa	1800
cgggagggcg	gaggagacc	tcgccaacgg	gaggcgggag	ggagacctcg	ccaacgggag	1860
gcgggaggg	gacctcgcca	acgggagggc	ggagggagac	ctcgccaacg	ggagggcgga	1920
gtgagacctc	gccaacggga	ggcgggagt	agacctcgcc	aacgggaggg	gggagttaga	1980

US33026.ST25.txt

cctcgccaac	gggagggcggg	agtgagacct	cgccaacggg	aggcgggagt	gagacctcgc	2040
caacgggagg	cgggagggag	acctcgccaa	cgggagggcgg	gagtgagacc	tcagcaacgg	2100
gaggcgggag	tgagacctca	ccaaggagac	gcgggagtga	gacctcagca	acgggagggg	2160
gggagggaga	cctcaccaag	gagacgcggg	agtgagacct	cagcaacggg	aggcggtagg	2220
gagacctcac	caaggagacg	cgggagttag	acctcagcaa	cgggagggcgg	gaggagagacc	2280
tcaccaagga	gaggcgggag	ggagacctca	gcaacgggag	gcgggagggga	gacctcagca	2340
acgggagggc	ggaggagagac	ctcagcaacg	ggaggcggga	gggagacgtc	gccaaggaga	2400
ggcgggaggg	agacgtcgcc	aacgggaggc	gggagggaga	cgtcgccaac	gggagggcggg	2460
agggagacct	caccaacggg	aggcgggagt	gagacctcac	caacgggagg	cgggagggag	2520
acctcagcaa	cgggagggcgg	gaggagagacc	tcaccaacgg	gaggcgggag	tgagacctca	2580
gcaacgggag	gcgggattga	gacctcacca	acgggagggc	ggagttagac	ctcaccaagg	2640
agaggcggga	gtgagacctc	accaacggga	ggccggagtg	agacctcacc	aacgggaggc	2700
gggagggaga	cctcaccaac	gggaggcagg	agtgaagca	ccgtcgccgt	cagcttgggc	2760
cacgagaagg	tcccgcagcc	tgggcggcca	tccctgcggt	caccggtgtc	cctgggacgc	2820
acgagccaag	gtgccgcccc	ccgcttcagg	ccgcagtgcg	tgagaaacag	cgcagccccg	2880
ccgcacacgg	catcctgccc	tgggaccgag	agtgggctcc			2920

<210> 78
 <211> 2419
 <212> DNA
 <213> Homo sapiens

<400> 78	
ctcctttccc	cccacaatcc ctgcacaccc gtgggcacct atgctctcgt gtggtctgga 60
tctgccctct	gtgtgcacag cctgtgcctg gccagcgtg agtgactcgt ggatgctctg 120
caggttagac	ctgaggtgag tgtcctggca ccgcccgggc ctggctatcg ggaagctccg 180
cccagacggc	cgcctcctcc ctggcgcggg cctcttcctt aggaggagct cgttagcttg 240
tttttccatc	ggtattcttt gtccccagtc acccggaacct ggggctgggc actgccaggg 300
gcaaagtgtc	catgtggaga ggccaagcgg gggacagggg cggcttgtcc gccaggtggc 360
accgagggcg	ctgcgtgtgg ggcagtgttc ccactctcgt caccagccc cacttcccgc 420
tgctctgag	tattctgtgg gggctgcccc ggctgcagcc ccaggtgtag cctgctggaa 480
atctcacggt	gtccaggccc catccctaac cggcccgggg catccctgat ttcgtgctca 540
ccgagagggg	cctccctcgg cctgcccagc taagagcctt gcaggagccc ttctccagcc 600
tcacactgcc	agcccccttg aattgcagca ctcaggtccc caggaaagggt gtttttatcc 660
agtttagctgt	tttttatact tatgaaaaag ctccgtcgct tggagcaaag cagagttgat 720

US33026.ST25.txt

tttcagatgt gatttctgca ggcagagcaa tgtctggttc ctgctgtttc ttctgatggg	780
cgcggcggtg actgaggggtg tcctgcgagc cgtcgggtgag cgctcagctg tcctgggtctg	840
caagttccta ctgacatcac aacctgctgc ttctctctgt ccttaagggg cagaagatgg	900
agaaaagggtt catgtttcca cccctgtatt ctgttaggtt cgggtttttg agagaggctt	960
gtggggaagg ggccgtgtcc ccactccttc ctttcttctt gtacacatat ttacatccac	1020
tgattgagtg atttacaatc actcaacatg attgacggaa cttctggcac tgcggaagct	1080
gtgctaaggc ctgggcattc atgggacatg gagcgtgcaa gagctgaagt tttaatgact	1140
tgcttgacaga aaaagatcaa gttttacaac agaaaattat ggggcataat ttctattgtg	1200
gcaagggacc agggcgtct cctggaggaa atctggagag aacatgccac agccaggccg	1260
gcgtagagag aggctctggc aggggcccct cccaaccac ccctgcatgc gtggggcttc	1320
tgctcagcaa caggggcgca gctccacttt caaagtgtga ggggcagggg ctgaggtctc	1380
ggatgccttc accacctgcc tgagtcgggc atcgggcagg gagcgtgcgg gggcctctgc	1440
ctctgctggc ccagatgatt ccctggccct cctcaagtgc agctcccatt aaatagatag	1500
agccgggctc tgagccacga attgggcaa gcatcccaag ggggtggaac cgagtcagga	1560
gtcaagacca gaggccagga actgcccacg cccatgttcc ttccacaggg ccagcctgtc	1620
cggtggcaac actaatacca tcccatgaag cctgtgaaaa ttaaaggga tggtgcatgt	1680
ttagaggcca cacacagcaa gtaaccaatg aacaccacc cttcatgctt ggttttcatc	1740
actgggccag caggggcgga ggccccagca ctctccctgc ctgatgccg actcaggcag	1800
gtgggcttga gagccccctc cggggctcca gggctctgaa ggcattccaac acctgggccc	1860
ctgcccctca catTTTtgaa gtggagctgt gcccgtgctg ctgagcga aa gccccatcca	1920
gctctccgag aaccagacga ggggcaagg agatgaagtc ttcttgga cttggactcc	1980
agctggtgtg ggggtcagag cagcaggctg agccttcagg gggcctccgg caggctccca	2040
aggctgcgct gtgcgtctct tccaccacac gcaactggggc atgaggccaa gggcatcgtc	2100
tgacagacga gagggaaact ggggtggcag ggcttgccgg cgcaggacag cgccaagggg	2160
ctttcgtctc ccagcattag gacgaccttg tcctctgccc ctgtctgggg gccgctgggt	2220
ccctcctcac aggagcgagg caggcagctc tgggtgcaggg ccggccaaca ggcctcagat	2280
ctggagtcac agaccgaagg acgaggacaa gggccccaca cacctccaag caggccctga	2340
ggtagtgacg ggcaggcagg accctctgtg acccttctc actcctcacc cagagaagcc	2400
aggagagcgg gatgccgag	2419

<210> 79
 <211> 3355
 <212> DNA
 <213> Homo sapiens

US33026.ST25.txt

<400> 79

tggggcagga gtcacagtgt ggggaattaag gaaaaaaciaa gcaggtaggg tagagagccg	60
gactaccatc aaagcatgag ttttctgctg cccggctccg ccgtgacgcc actcctccca	120
ccagaacgag cgcgtttgtc tccacactct cccctgcttg tcattgagct ttgttcgggt	180
taggaagcac gaacagaaag gtggctgtga caggcagtgg gctggaaagt gcatttccac	240
tggtctgccc tctcctggga caaggtgagc ttggtgctta gactggggcc gtcccgactc	300
caggagcaac gccagtcctc caagcacggg aggcctttcc tcctctcagt attgcagcag	360
gcagcgcaca gcccttctgt ccaaactctgg gaacctgaaa gaccttcgga atcttgctgt	420
tttagacgtt gtaagaggag cgggtaggac cccacgtgct caggccccac gctttggatc	480
tacccccctc gcagccagag ggacaagcag ctgctgtgct ggtcatggcc tcatcccgctg	540
tgtgacgatg gccactcacg tcttctcatt caacagaagt tatcaccgtg cgtcagactt	600
ttattttggat tttgtgcgtc ttgcatgtat ggtggggatg accggcccca cctccaagtg	660
taggcgctgg agccccctggg gacgcagcgc tgcttgctcc tgacagatgg gttgcacccg	720
tgggaggggt ccagatgtgc tagctcttgg gagtcagtga tgggtgtacc gggaatggcc	780
tggcgtgcat ttccattcag aaactcccag tccctgcctg gaacctgggt ccttttgctg	840
tttttttccc cctttcctgt ccctttcctg ggtggctggg ccctgctgtc gccctgcct	900
ccctggctgc agagctttcc tctggaggac tcgacacaga gcctgcgccg tctctgactc	960
cgggctctgc tgccctgccc cactttgggtc tctcagggtg gagttgaggt tgcattctgct	1020
gagagccgtg cccacagggtg aggtagtatc agggctcctga gccagagtcc actgtcccct	1080
ggccgtgggt ttggagctgc cagccatcct tccctgagaa cccagcctat gactcggctc	1140
cccttggggc tgccctatct ttccttcctg ccctggctctg tcctgcggcc ccctcagtc	1200
tcattggcaa gtcagccaac agcaaccac acacagaggc cacttctgga tgggtgtctg	1260
gcaagggtgt ggtctgaatt cagccttttg cctcgcgtgc caacccccgt gtcctgggct	1320
ctccaagagc caccttagga agatggggag tgggtctgga ccactgagca actggtcatt	1380
ctgcatcagc tcctgaaagt cccttggtga ccagctccct gatgaggaca agctcttagc	1440
tcagaacaac acagaatcca gcgctgacca taggacggct gtctaattgg ccttctctag	1500
aaacctctct gtgccattct gaaagtggaa aatgccggca ttggtcatgc gaccttgc	1560
agctgtctat tttcatgggtc tctccacca ctctggcccc ttcatgtttt gtggagagaa	1620
tagcagacct cgccccccgc cccagtgtta agaggtgact tagacacct caccttgaag	1680
ttttcacata ttttctatcc atagtatttg tatacttcac acgaagactt attagtggat	1740
aaatataata aactccttcc tattgaaata aaatttgaga agaacatgggt atgtgccagc	1800
caaagcccaa attcaaata acccttctgt gaagggggaag aatcagtcct gttgagagaa	1860

US33026.ST25.txt

agtaatttag atgcagaagg aatcccagct gcctagaaat ccccgttgcc aacagcaggc	1920
gaaaggaacc acccatggga gggaaatgtcg cagggcagcg gcaggtcggg cggcagtgca	1980
gcagccgtga gaacgcagga ctacacttc cgggctgtgt cgccaacatt ggcaaccagt	2040
cgtcacctgc caaccactt gggggagcat ggatggtatt ggtcgggctc tatccagctg	2100
tttgttagca gtgagtacaa aaaaataaaa aaatgctatt ttttagctgg tcagaaatga	2160
cttgaaagac ctgagactgt tgagttaact taaaacagcc cctcctttgc atctaacaaa	2220
gtaataaaat tgtgtgtgtt catccaatgg gtaaataatgc agcctctgct gtttcaagga	2280
aagtgaaagg ctgagcagta tgtgttatct tgccctcctt aaggcatgct tttcctctga	2340
atgtccttgg ctgagaaagc tggttgtcag ggagcttcac tggggctctt gaggggactt	2400
ctccagagga gctggtgaag gagcgctga ggacacagga gagcagcatc tctggtggc	2460
actctgccc gccgggcagg ttgagccac tttcacaacc ctgaggcggc cacagcccga	2520
ccgtcagggg gaaccactc tcacggtcct ggggtggtca ctgagctggc ctggcaggtg	2580
gcaccagtc tcacagccct gaggcagtca cagcctgacc gtcaggggga acccactctc	2640
acagtcctgg ggtggtcact cagctggcct ggcaggtggc acccagtctc acagccctga	2700
ggcagtcaca gcctgaccgt cgggggaacc cactctcaca gtcctggggt ggtcactcag	2760
ctggcctggc aggtggcacc cagtctcaca gccctgaggc agtcacagcc tgaccgtcag	2820
ggggaaccca ctctcacagt cctggggtgg tctctcagcg gtcccggcag ggggaaccca	2880
ctttcacagc cccgaggcgg tcggtcactc agcctagccc agcccagcag gtggaaccca	2940
ctccccactg tcacagccct gaggcggcgg gggcgtcctc cacctcgctc ttcctggaga	3000
gacgccagtg tgtgggtttg gaagcggagt ctattttaag tttgcagttc ctgaaggagc	3060
ctgtgttggc tgtgctgtct ccacatggc acagccttga agcctccagc cttttaagga	3120
caagcctctg cctggctgcc tgtggttggg gcaagccgct acttacgttc gcggtgcctg	3180
ttgcgttttc ccacctaaga gggcacagga ggtggtggaa ggggagtgga actaagggtg	3240
gggacttgag agcaaaactgt gagtgtccag agctgtagga ggttcggaga agacaccgag	3300
tgctcctcct gcagggtgag aaaccctcct gtttctgatt gcctcatgca ccacc	3355

<210> 80
 <211> 2503
 <212> DNA
 <213> Homo sapiens

<400> 80	
tgaggcaact cgtagatgga gatttgggaa aagacgatgt ggcctcctac ctttccagtt	60
tctgttggca gcccttcacg tagcctcctg cctcgcctct acacctacta ccctgtcggc	120
ccttttgcca tgctgtcctc gtataactcg gattctctcc tcaggtgtag gtgcagggag	180

US33026.ST25.txt

tcaggggaacc cttagactcc cctgtgtgca agagcccagg tggttggtgtg tccctttaat	240
gctactgtgc tctctggtgt ttctgatttt cctgccttta ttctgtcttc tcttgtccta	300
tctcattcca gccacatct tctcctttcc tgattacttt tgttgtcctg cctcttcagg	360
taatggtcac agatttggt gtaggcacgt taccagccct gtggcttctt gactcttggt	420
tccctgttaa ctctgtttct gagaaatgtg ggtatggagg tgggtgggaa agctcacttc	480
catgaaggat gtctccatgc taggagctgc ctgcaccctg gcagaggtgg ccagtcacgt	540
gaaggtgggc agggccctta gcatggccac acatgtcccc agggcagatc aaggggcctc	600
tcagaaccat gttccccagc caggtgagga ccattttcac tgggaccag gccaaaacca	660
tgtgggtgca caaagccagg cactgccaaag tggaacatga ggttattttcc aaatcatggg	720
agccaccagc agggagaggg caggatggaa aatcccctgg agccggtcaa ctttttgctc	780
atggctagtg aaataaagt gtttgagtac tagatgccaa gtgccgcctt tatcaaacct	840
aaggctgctg accagagttt ggaagtgatc taagaacagg tccattcagt tccaaggtct	900
cttgtagctt cccagggcag ctgagtgatc ttgcatggag gaccacttga ttccacacta	960
aaaggtgaaga cttcaaggcc tacatatgtg gttttctctg ttaatggcaa gtacaagatg	1020
gctcaggatc atatgcctct atttctgctc cagccagtcg gccaggagtg acccggcagt	1080
ctccagatta tccccgcctg ctctatttga gtgtaagggt gtgtgtctta ctccacagga	1140
aagggtgca aactgtcaaa gtgagtctgg aaagggtcag aggtgagggc ctgcagagag	1200
agaaacagga cctgcaccta agctgcattc tggtagatgg tttcaaaggg atccaggatt	1260
tctgcacctc aggtgccaaa acacttgctc tgccacaca tgctgcata aaatactgtt	1320
tattttgtcc ttttaggaaga ctaaagtagt ccagctcccc tacagcccag tcttgcccc	1380
accctgcact ctgtcgcctt agttcctggg gaccaagcat ctggcatttc tcaagcagac	1440
cctctccttg ttgtccttt tcagtcctg gagtctggct tcccaaagcc aaagctggag	1500
gagagctcat tgctgaggaa gcagggttg agcctgagga gatgcagagg gcctggaccc	1560
ctcgtggat cccagaggcc caggggcaga gatgctggga cagggctcta ggggaccact	1620
gggtgactct tgaggggcta gaagcagggc tgggtgactt ttgctacggt gggctgcaac	1680
actgtctggc ttctcaaagc gcttgccgca gaattcacag gggaagcgca aggcagccac	1740
cgtctctgca tgcttgctg ggtgccagtt caggggaagcc ttctggcggc aggtaaaccc	1800
gcatatctca cacctggagt cagggacaga agagggagg aacaaggcct caggccatca	1860
tgacttcctt aggggggttc tctgctccc cactgcctag gtgtcctata tgcctagctt	1920
ccagactcca cctcctcct tctagcccct ggccctcaga cccacccca gcactcactg	1980
caggggtttt tctccagtgt ggatacgtct gtggatgaca aggttgctgc tagtgcgga	2040

US33026.ST25.txt

agaccggg	cagaa	agatg	ccgggtgtct	gcaggcatat	gagggacact	2100
ccagcatctg	ccccaccct	gtggcccctc	cttggcccac	cccaccact	gtccctcacc	2160
agagtgcacc	gtattggagg	tcaggaggct	caggttctaa	ttagttgta	tccaaatcat	2220
ggagcccgtc	tggacctccc	ttacctgatg	ggtcatgaca	accaagtaag	atacgaaccc	2280
agctaaaaga	cttcattatt	gtccacccca	gcccctgccc	gccaatccca	ctcaaacc	2340
tgaactcctg	atggaagtgc	accacccac	ctcagcctct	aggctgggtc	tttctcaaag	2400
gagacacatg	gaatggagag	ctgggtcctt	atgtatgaat	tgaaggcagt	gggcagcagc	2460
caagcagaac	cttggagtca	gcatgggaa	ttaggattga	agc		2503

<210> 81
 <211> 6191
 <212> DNA
 <213> Homo sapiens

<400> 81						
gtcagttaac	cagaccccag	cctgcatccc	cattgatgaa	tcaggcagtt	cctcccgtgc	60
agccgctaag	agcaaagggg	acctgggaga	gggtgatgtg	gtcagtgggc	accatgccgg	120
ccttgccaaa	tgctcaggca	ctctgggtaa	gcactgtgta	ccggctcaga	tgttcactgg	180
ctcagggtgtg	caccggctca	gatgttcacc	ggctcagggtg	ttcactggct	cagggtgtgta	240
ctggctcagg	tgtgactgg	ctcagggtgtg	taccgtgcac	tggctcagggt	gtgcaccggc	300
tcagggtgtgt	accggctcag	gtgtgcaccg	gctcagctgt	gcaccggctc	agctgttcac	360
tggctcagggt	gtgtaccggc	tcagggtgtgc	actggctcag	gtgtgtaccg	tgcactggct	420
caggcgttca	ctggctcagg	tgtgtaccgg	ctcagggtgtg	caccggctca	gctgtgcacc	480
ggctcagggtg	tgcaccggct	cagggtgttca	ccggctcagg	tgtgcaccag	ctcagggtgtg	540
taccgtgcac	tggctcagggt	gtgcaccagc	tcagggtgttc	actggcttag	gtgtgcaccg	600
gctcagatgt	gtaccagctc	agggtgtgcac	cggctcagggt	gtgtaccggc	tcagatgtgt	660
gccggctcag	gtgtgactg	gctcagggtgt	gcaccagctc	agatctgagc	cagcacagggt	720
ctgcaggctc	ccacagggtca	caacaagaag	cagggtgtttc	tgggcgagga	cctgaagcag	780
caggctgggg	ctgggcccagg	tccactgtg	gctgggtggc	agcacacctt	tgccagcagg	840
cgccacagca	cagggtgccca	gcccacagcg	gggcggcagg	gaatctgctc	ctggaacctg	900
ggttttctgg	gctggctccc	gggggtgttg	actgacagga	gaaggctgca	gaacaagaag	960
gtcgggtttc	aggctggcag	cctctctca	attacaggga	tgctggggta	ggccagaacc	1020
cgggtgtcagg	tggagtagaa	gtcacgcttc	acgggagggt	tctgtttttt	aagaagtgcc	1080
tgtgggctgg	ggggtttttg	gtccagagtc	taggggaagg	caaagcttac	caaacagaaa	1140
gtgtccactc	cgggggtggg	gactggggcc	tcgtctctcc	gctgggcccag	gacagggctg	1200

tgagggtccag	ctgcctgctc	agctctggga	cctgtcctcc	tgcaggagcc	cacggccgtg	1260
aacatgcaca	cgggcagatc	cacatgtccc	ccgaggaaaa	agagagggtc	aagggttgagt	1320
gtgtgggtgc	taggggggtgc	agaactcact	tctaactatg	agggttgagg	cgggcttcac	1380
aggggaggtg	ggttttgagc	caggcctgca	gcccggcatc	tggaagtggc	ttccaggctc	1440
tccctgagct	ctctcctgca	ggacacccct	gcctgcagat	ctgcaccccc	agctccttcc	1500
tggggacttg	atatcatgac	cctgcctggc	accccgaggg	tgaatgctgc	accagccct	1560
gagggtttcc	atctgctggg	ggcatctgac	ctgggcaggc	cagggtgggt	gggagggagt	1620
ccagcggggg	aggtgcaggg	tggccagggg	gagacactgc	cctggctgga	gcctggattc	1680
actaggtcat	caccaatgca	gggggtcctg	gctcactgga	ctttgctact	agagaagggt	1740
ggggagctcc	acatgaaggc	aagaaggctg	gggctcaggg	tgtaactcat	ccccggagag	1800
caaccagaaa	ggccgtcgga	ttgcaacgca	gcctgcattg	tcctcgtga	acgcctggtc	1860
ctgtcccacc	tgcaccggac	agcaactgct	tccccctcag	ggcggccccc	atcgtccccc	1920
aggtgctgca	agagcagtga	gacttaccca	agacaagtca	gaggctttgg	agctctcggg	1980
ggcggtggt	tctcccagga	gccccgtatc	tgtcagtcct	cccataaggg	gaggggagtt	2040
ggcaaggctc	ctccttgctc	ccagcgtgag	gattgcccct	acttttccgg	ccccacttg	2100
ccccctccac	ctgccctttt	ccctccggga	agccctggag	gttttccaag	aactctgcgg	2160
gtcgaggggg	cagcctatgt	ggggtggcgg	ggggcctcct	gcttgttgga	tgcccagacg	2220
cctacacctt	tcaccctggg	gtccagtcgg	ctgatggcca	tgagagagaa	gctgagagca	2280
accagagccc	acagctccat	gctggtcccc	catctgcaaa	cgctgggccc	catgggagct	2340
gtgactcgg	ttccagctcg	tcacagggt	ggccgaggcc	ccggcatgtc	aagccatctc	2400
aggttgggca	ggaatgtggt	ccgtgttcac	atgtgtctct	gtgtgtgtga	gagagagggg	2460
tcagctggga	cgctgggggtg	gcagggacag	tcctggctca	cccctcatcc	tccctcgacc	2520
tcgactccct	ccacatgagg	agccccccct	tcctggctat	cctgtgagtt	gagcttcctc	2580
tgtgaggagg	gctttgtcag	aggttccctg	cggttccaga	aggaaagctg	gctgcaggga	2640
gggccgggca	ctggacaccg	tgtggctgag	cctgtggcgg	gggctgcaca	gctgggttcc	2700
cagccccctt	ccttgtcccc	accccaccgc	actgggaggc	cctgctgagg	ggccagagtc	2760
cggctgcagg	tcccacgggt	gggggtgggg	cccctcatta	gactgcagc	tgacactgag	2820
ggcttccacc	tcgctaattg	attaaactgt	ttagaaacca	ggccggcgtg	gtgggaattg	2880
gccccggccg	ggctgtccgc	tccccctctg	tgagggcagc	ggcccccgga	gttcatcagt	2940
caggccgggt	ggtgggggtcc	cggccctggc	tgccctcggg	aacccttctt	tgctcctttg	3000
tgcggtcaaa	atggtgaggg	tcctgagagg	agctggtgag	accccggggt	cctctcctcc	3060
ctgaccactc	actgggcgag	catggagggg	ggcctactgt	gcacgggcat	gttcctggga	3120

US33026.ST25.txt

acctgcctgc	tgggattaaa	cccgcccttg	tgaaggacgg	caggtgggtc	actcaatacc	3180
aggaggggca	cggggctgtg	agcagaggcc	cgagagcctt	ctgaggcggc	accgggtgct	3240
cctgggccct	gctctcctgg	gatttgttgt	gcctgtgacc	tcagcctctt	ccttcctctc	3300
ctgtgggatt	cccccaacac	cccctcccct	cctgccattc	cttcccccac	caggcccat	3360
gcctcccctc	cccagtcccc	cctaccccc	ggtcttcctt	ctaggacatc	agcctgggct	3420
gtgggtcttg	gtctcccaca	gagactgagt	cctgggagaa	gggcagagcc	ttggttccca	3480
gtgcagcccc	tgtgccagcc	tgcagtgggc	accggttcag	ccggtgcaca	ctgggtcctg	3540
ccccacctg	aggagcggcc	tggggcctga	tcagccctgc	tgggtgtctg	cctgcagcca	3600
gcaccggctc	tgctattcac	acttggttac	aggtgggtgc	ccatcccagc	agcctcggag	3660
cagagtgggt	cgggctccgg	aggtgggggc	ggccactaac	agcaggaggt	cgtggcagtg	3720
cggctatggc	aggggttctg	aggggcggaa	ggcaggggcg	ggacgtgggg	acgcagacct	3780
gcagggagga	cgccggctca	cccagcaggg	aggggatggc	cgcccagga	ccccagcct	3840
gcccgtctg	cttccccgac	cgccggggca	ggggccccac	gggggacgcc	agggaaacgtg	3900
aggaatccgg	agtcaacact	gggccactgt	gtgctgccag	ccgggcgggc	cgtgatttat	3960
aaagacagcg	gaggcttggc	tgggtgtcgg	gcggtgaggt	cacggcggcc	gggggctctg	4020
gaatttcttc	agaagaattt	tgcttaccaa	gccacatact	tttctagcca	tcagtttgat	4080
cagaggcaag	atgaaaaata	tgctaaaaaa	caaagaaaca	aaaatacacc	cggggggctc	4140
cggtgagggg	gaggggcgct	gcgggagggg	tggagggccc	aggggaaggt	gaggggcccg	4200
gagccactct	gcccggcact	ctccgcccag	aaacagccca	acgccccttt	ctttcccctt	4260
ttagcactgc	tgagctggac	taaaatgccc	aacaaggaac	tttactaaaa	actgaggcaa	4320
gaaagaaaac	acacatgaca	taaaaatagt	caagggcaca	ttcttgatgg	tagataactg	4380
gtctctggcc	acagcggctg	ccaggttggg	tgtcggccgg	cgggtctgcc	agtcccaccc	4440
ataggcactg	cacttcctctg	ggccggacag	ggggtgtggc	gggtctgtgg	gcggggggac	4500
aaggttggca	ggaccgtgag	gggggtgggt	ggtctgtggg	agggggacaa	ggttggcagg	4560
accgtgaggg	gggtggcggg	tctgtgggcg	gggggacaag	gttggcagga	ccgtgagggg	4620
ggtggtgggt	ctgtgggagg	gggacaaggg	tggcaggacc	gtgagggggg	tggcgggtct	4680
gtgggagggg	ggacaagggt	ggcaggaccg	tgaggggggt	ggcgggtctg	tgggcaggtg	4740
gacaaggggt	gcaggacctg	tgagatgatg	tgagtgcagc	acagtggggc	tctgtaagaa	4800
gcgaccggg	cagcttgagc	aggggcaggc	tgggcgggtg	ctacgggtct	ctgtccaccg	4860
gagcctctgt	tcagcccacc	tcagtgtcgc	tccggatgtg	gatagaagga	gacactgtct	4920
gggccacaga	ccaggtgctt	ccttcgtcct	gaccacacct	gcttctgccc	aggagacgct	4980

US33026.ST25.txt

gcaggggctg tgctccccgc ccggctactc ttgagtggtc cccaggctcc tcctcctccc 5040
 ggttccacct ggagccgtgg ggctgtgccg gggatgcctc gctgcagctg cagctcaggg 5100
 agaactcact gctggagctt ctgcctctcc cgtgccgtgg ggccgagccg agctccacca 5160
 gggctctggac ttctgcacgg gcagctgtgc ttcccagggt cgtggagagg ggtccttggt 5220
 cccagccact gtgtgacctc gaccaggaca cttgactttc ctgccccag agggctttgt 5280
 ctggacctcc agagcccca gccttgctca cttggctctg cttctgggca gggtgccctg 5340
 gcattgctgt tgctggcacc tgccgtgcct tggaggggtc tccagtggga cctctgagca 5400
 cggctcttcc tgtacttttc agaggtgagc agagggcatt tgtgggagaa ctggaacctg 5460
 gggaggaaaa accccaaggc tggcaaagac tccctgcagt ctgtccagtg atccactgag 5520
 gctgagtggg ggaggacatg gaggccggcc cgggaccagg acatggaggc cggccagggg 5580
 cctggggaag agagggcctc agtctggtga gaccagcctg gtgggtgcct ggggaagaga 5640
 gggcctcagt cctgtgagac cagcctggtg ggtgcctggg gaagagaggc cctcagtccg 5700
 gtgaggagac cagcctggtg ggtgcaggcc acccttgctc gctgtcaggg cctgcccttc 5760
 tctccggcct ccagctgctt tgccccagcg atcaggcgcc tgagcttcct cccccagcc 5820
 tgagtccagc tgagctccgt gtggctttcc cgggtggagca gactctgtct gatttcccaa 5880
 cggctggcgc ctcccagggc gtgctccttg ccacggaaca gccccttggg gccagggtgtg 5940
 tactccaggc agtggccccg cagtgtctgg aagtgccggt catggctgct gcacgtgggt 6000
 tgctgtctgg gagagtcctg tgggtgtttg tgagggcgga ggacaccgag gacagagaat 6060
 gggcaacttc cagggagggc ccagatgcag ccacgactgg ggtgcatctg ggatacctcg 6120
 tccagggaca ctccccacca tggcctggtg cctgtccagc aggaagagct tcagggcagt 6180
 aggaaggggg a 6191

<210> 82
 <211> 2531
 <212> DNA
 <213> Homo sapiens

<400> 82
 tgcactacct ggcgctcagc cgcgactacc tgcgcgcctg gcacagcgag gacgtgtctc 60
 tgggcgccctg gctggcgccg gtggacgtcc agcgggagca cgacccgcgc ttcgacaccg 120
 aataccggtc ccgcggctgc agcaaccagt acctggtgac gcacaagcag agcctggagg 180
 acatgctgga gaagcacgcg acgctggcgc gcgagggccg cctgtgcaag cgcgaggtgc 240
 agctgcgcct gtcctacgtg tacgactggt ccgcgccgcc ctgcagtgct tgccagagaa 300
 gggagggcat cccctgagcc gccgcggccc ggccctccgg gacacctgct tcacccggcg 360
 gcgccttggg gcagggtgcc agcgggcgca ctacgcccgg gcccgaaggc ccccgctccc 420

US33026.ST25.txt

cagccacgct tgtggctcgt gcgtcccgg	ctgcgttttg gagaccctg ggggttgccg	480
gggcagcgcg ccgtgtccag gtggagggtgc	ccgttccttg acctcagcga gcctgagccg	540
ggcccggccg cacgctgacc cccgtgctgt	ccccgaccgg ctcacggggc tgggctccga	600
tcttcctgtg ctcttatcag tggcgtttct	cacgtctgcg tctcagatct aacgtggttt	660
cacatcaatc cgctttcatg ggattttggg	ctctgtccag tgacttcgtg gtaaagttaa	720
ctcagtgttt gcttgcgact tatttataaa	tattgtaagt ttgtgtcgat gagtgtagt	780
tggcagtgcg cacgtctcgg tttttttaca	tgatttaagg aaagactttt atgtcagaac	840
ttgggtgcctg taccgtcaac cccgtgctg	cccgtgttta aacgcaggag aactttaaaa	900
ctggccatct atcttttcag tgtacaagtc	actgaacca ttgtttcttt ctgaagagac	960
tttcctttca aggtttcca tgggtccgcg	ccacacaggg ccggtgctgc tttatttcag	1020
actctgcccc aggtttcagg aatccgaacc	ccggagtgtg gacgcggttc cccaacttcc	1080
gccttaagaa aacaggacca gccggcacca	ggcccgcttc tcacgtactt taacacatcc	1140
ttgaaagccc ctcttttaat gagaaaagcg	aacactgcgg tccttgccaa agtaaaatga	1200
agctgccccg ggacaagggg ttaccatgag	ctccctggag tccgacgagg gttttctctc	1260
tgggggacct ggggtgtccc cgctgtggtc	tttgttgtcc cactttggga ccgggtccag	1320
tctggggtct agtctcgagc atcagggtca	ggctcggggc agggctgggt taggctccgg	1380
gtcagtcttg ccatgggttt gggagcagg	ttgggttact tgcgtttgaa ggcagcagt	1440
gtctcaggag gaagaaacgg gggcgggaga	gagtgggtgat ctgtggtcag tgggtcagt	1500
acctgcacgg tgattctccc acctccaaaa	ggtaggggtg ggactggagg cgtccctagg	1560
tcaggccgtt gagttcgagc tccgatgggc	caccttgaat ccaggactga ccgccgtgt	1620
gtgcacagtt tgttcttgga cgaggactcg	tgaggatcga gggctgggga ccccggtgtg	1680
agcaggatgg ggccctgccc tcccgtggga	gttgtggact cgagcccagg ggctgcccgt	1740
cacagcgggtg tcccagggtc ctgccatccg	atctttacct ggatgtcttc tctggagttt	1800
ggaattgctt gaggaaccct gcgtgtgctt	ggagaggcca gagggcttgc tgagaacccc	1860
atggacagtg gagagcggga ttcgaaccaa	gggttgact cccacacctc tggcctgcgt	1920
cgcccagttc tttgtggctc tgaagaattg	gccgctgtgg aaaagagcaa atgtccgaga	1980
cccccaacag gaagagtcta aaaatccagt	ttgcaaccac ttctgacctc caaaaaaatg	2040
gaaatttagt gtttttcagc ctaagacatt	aaatttcata tcagaacaaa gcctgcccc	2100
ggctgaccct cccagccgt accgtggtga	acgggttcag aggatacgtg ggctgaaggc	2160
tgggcctcgg gagggctggg ggcttcaga	gccggggcag ctgcagctct ctctggtctc	2220
acctggaact tgccctgtag atcctccctg	ccctgcggct ccaatcgacc gtgcacgggc	2280
cgtggcatcc gtccccagg cgtccttccc	tggctcttagc ttgtacagct cccacccac	2340

US33026.ST25.txt

ccaggtactc ggttcccgga gaccagggcc aaaccaggag gccctcggga gatggggggt 2400
caccgaattc atttccatgt gggaacttgg gatacaaac agccaactct tcctcagcca 2460
cacggatgtt tctcctctag tggccccgag aacctaccat ggaggggaca gtgtcagggc 2520
tggacgggca c 2531

<210> 83
<211> 30
<212> DNA
<213> Artificial

<220>
<223> Reverse DNA Primer

<400> 83
tctgcggctg acctggcctc cacgtctcac 30

<210> 84
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 84
ctacccgtct cccaccccct ctccccaccc 30

<210> 85
<211> 30
<212> DNA
<213> Artificial

<220>
<223> FORWARD DNA PRIMER

<400> 85
ccctaaactc ctccctatcc cttctcaatc 30

<210> 86
<211> 28
<212> DNA
<213> Artificial

<220>
<223> FORWARD DNA PRIMER

<400> 86
aaaaaaaacc tcatttcctc cccaaagc 28

<210> 87
<211> 32
<212> DNA
<213> Artificial

<220>
<223> FORWARD DNA PRIMER

<400> 87
agttcctaaa caactatgag ctaaagtatc ag 32

<210> 88
<211> 34
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 88
cttttaagtg tgaagagtta agaagtatca tgtc 34

<210> 89
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 89
ttgatgttta tgtccagatt ttctcttccc 30

<210> 90
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 90
gaatctcaaa atgcttaact ccaaaaccag 30

<210> 91
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 91
cagagcatag tcaagagagg cgcattttcc 30

<210> 92
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 92
aagagcccct aaattagccc cgtagaaacc 30

<210> 93
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 93
gcaaagacaa tgcaaaaaac actttacatg g 31

<210> 94
<211> 34
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 94
gcctgatata ggtatattca gagagctaca gaag 34

<210> 95
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 95
actccctttt ggataatcaa aatgctcaac 30

<210> 96
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 96
gcaaaattac ctttcaaatg tgtacttgct c 31

<210> 97
<211> 30
<212> DNA
<213> Artificial

<220>
<223> FORWARD DNA PRIMER

<400> 97
ttgaaatag gtacaaagaa ggggttgag 30

<210> 98
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 98
cttgaagtcc ttgccgaaga aaaatagttg 30

<210> 99
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 99
gctgactcaa gaactgtagc attgagtgtg ag 32

<210> 100
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 100
ggggaatgca agcatattat atgagcagaa gg 32

<210> 101
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 101
gcaaaggacc tctttaatgc ttatcagcca c 31

<210> 102
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 102
ggtgagagct atggaaagcc tctcctattg 30

<210> 103
<211> 32

<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 103
ttccagcccc acctgctcag gcagcctcta tg 32

<210> 104
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 104
gccagcacag cctcctgtct tagccctgtc c 31

<210> 105
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 105
gcgagaaatg cctccctatt ccccaggagc 30

<210> 106
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 106
tcccagaact ttgcctgttg cccatgccac 30

<210> 107
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 107
agcagctcca gagcagggaa cccacctcac 30

<210> 108
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 108
gtgtccacac caggcagcgt ccaactcagc 30

<210> 109
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 109
atgagggagg agtggggaga ggaagtgaag 30

<210> 110
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 110
actacctggt gtccagtacc caaatccagc 30

<210> 111
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 111
ccctctttct gaacaccccc cggcagacac 30

<210> 112
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 112
ccctctttct gaacaccccc cggcagacac 30

<210> 113
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 113
tctgctctcc tgtgccaagc gtcaatatgg 30

<210> 114
<211> 29
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 114
acctctctgg gtctctctcc tcctcactg 29

<210> 115
<211> 33
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 115
gcatttctca gaataatgaa tggcaggaaa tac 33

<210> 116
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 116
gtgcatgttt caagacattc tcagattgtg 30

<210> 117
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 117
caagttggta aatggaggca ttatatggag 30

<210> 118
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 118
agtcacgtat caagtggaaa taaaatcgtc 30

<210> 119
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 119
acaacaggac aatgcatata accacgaaac 30

<210> 120
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 120
tcattagaat gaaagggagc cacagagcag 30

<210> 121
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 121
agctccaggt aactctcagg ccagcagccc 30

<210> 122
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 122
aaggaggaag tggaagctca gcccaggcag tg 32

<210> 123
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 123
tgctgaccga gcacatacac aattcagtga c 31

<210> 124
<211> 35

<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 124
agggtctctg ctaacgtagt gaaaatacgc aaatg

35

<210> 125
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 125
ctgagcagcc accctggatg ctctgcacg

30

<210> 126
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 126
ctctggccct cggcccattg ccacctcaac

30

<210> 127
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 127
acagaagcaa gcagaagtac agaaccagag

30

<210> 128
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 128
tttctccctc ctatgatgac gacttgggac

30

<210> 129
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 129
caccatctgc atcttacatc ttattccacc 30

<210> 130
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 130
aagttaattg gagggaaatg .gctgtaaagg 30

<210> 131
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 131
gagttaagct cagctcactc tgtggcacta cc 32

<210> 132
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 132
ggaagtgtct gtggtttgcc agctcctggt ct 32

<210> 133
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 133
gattctgacc cttgccagc ctacgtctcg 30

<210> 134
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 134
tgacccacaa tctttccctt ctggcaccac 30

<210> 135
<211> 34
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 135
gatgtttcta actataacctt tatgtgtttt tcct 34

<210> 136
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 136
gctcttccta ccaagttatc ttcatctatt cg 32

<210> 137
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 137
ccagatactg gtctcattct tgggcagttt c 31

<210> 138
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 138
ccgagtttga ctttcactca ctcacctaga tg 32

<210> 139
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 139
aatgaaaggg atacgtttgc gtctgtcctg 30

<210> 140
 <211> 30
 <212> DNA
 <213> ARTIFICIAL

<220>
 <223> REVERSE DNA PRIMER

<400> 140
 ggtaaagttc ttcccctggc tcttcacaac 30

<210> 141
 <211> 30
 <212> DNA
 <213> ARTIFICIAL

<220>
 <223> FORWARD DNA PRIMER

<400> 141
 attttagtga agaaacttgc tgtggagtcg 30

<210> 142
 <211> 30
 <212> DNA
 <213> ARTIFICIAL

<220>
 <223> REVERSE DNA PAPER

<400> 142
 aagaagaagg aaagaacaag aaaagcccag 30

<210> 143
 <211> 32
 <212> DNA
 <213> ARTIFICIAL FORWARD DNA PRIMER

<220>
 <223> FORWARD DNA PRIMER

<400> 143
 ccacaccag ccaacagcag acgtgatgga ag 32

<210> 144
 <211> 31
 <212> DNA
 <213> ARTIFICIAL

<220>
 <223> REVERSE DMA PRIMER

<400> 144
 ctgaggagac aggtgggaca gaggggcaga c 31

<210> 145
 <211> 30

<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 145
gctcctcccc acacctgacc ctgccctcac

30

<210> 146
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 146
gagctggccc gttttgccac ctgtcacccc

30

<210> 147
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 147
caacccgaga gatgagccct gcgtccactg

30

<210> 148
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 148
cacctgcgtc ttcaagccct aatgggcacc

30

<210> 149
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 149
aatgaagaaa tgaatctctc tccttgacg

30

<210> 150
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 150
tttatcatgt ggcaggcaat taaatgacag 30

<210> 151
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 151
gtgtccccag gcagagttaa gaaaagaagc 30

<210> 152
<211> 33
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 152
gcaggagtga aacaacaaaa aatacagcca gtc 33

<210> 153
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 153
tactccttcc ttccttcct caaccctgac 30

<210> 154
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 154
tttgggcaga gtgtggatgg agaagattgg 30

<210> 155
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 155
ttcagaaggt agagttggag gatcataggc 30

<210> 156
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 156
tccccacaga gtaaacagta ggaaggaaag 30

<210> 157
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 157
cacaaaaaga ttaaaacaca atcttgtgag c 31

<210> 158
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 158
actcatcctt tattcttcta gtaagaattg cc 32

<210> 159
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 159
tgcctgctga ctgaggggga tggccggaac 30

<210> 160
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 160
ggctgtgggt gtgcgggata ggggaggctc 30

<210> 161
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 161
tccttgctgc actacctacc catgcaggcg 30

<210> 162
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 162
ggtcaccggg aggaagccac acatctgacg 30

<210> 163
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 163
tccttagaaca tgtgacagaa tcaaaaaatt cc 32

<210> 164
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 164
tccttagaaca tgtgacagaa tcaaaaaatt cc 32

<210> 165
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 165
tttcagacgg tcgagtgaca gtccaaacgg 30

<210> 166
<211> 30

<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 166
ggaggctctg ctttccagcc agatgtaagg 30

<210> 167
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 167
gcatacatct ccgacactag gaaagacacg ac 32

<210> 168
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PAPER

<400> 168
attggccttt cagcttgccc aaacacaaac 30

<210> 169
<211> 32
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 169
cttaaaatat ccagtctcag ttttgtttcc tc 32

<210> 170
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 170
ttaaatgcaa ctcaaaagaa gaaaggtctc 30

<210> 171
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 171
cctttttttt gtcacctagt atttgcaaca c 31

<210> 172
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 172
ctaaaaccca taaattgacc gaacactctc 30

<210> 173
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 173
gggatagatg atggtttggt gtaatttgag 30

<210> 174
<211> 35
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 174
gtctctagat aatctaataa tatccacttc ccaag 35

<210> 175
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 175
gccacgcact tccctgctgt ttgaaagacc c 31

<210> 176
<211> 30
<212> DNA
<213> ARTIFICIALREVERSE DNA PRIMER

<400> 176
gtgtttgtca cccactcct gctcctgccc 30

<210> 177
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 177
gtgtcggttc tccaccacca cgatgagccc

30

<210> 178
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 178
tcccgctag cagagttgct gtctggcaag

30

<210> 179
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 179
agttctctgc ttcttccttg ttttctctcc

30

<210> 180
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 180
tccctttttg cttctctgtg ttgtgatttc

30

<210> 181
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 181
tcggataaaa gcagaagcag agagagcagg

30

<210> 182
<211> 30

<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 182
agccccctcc taaaggctgt cacctataag

30

<210> 183
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 183
atcctttcct tttttgcctt cttcctcatc

30

<210> 184
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 184
cttctttcct ccccatcttc tccttccttag

30

<210> 185
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 185
gacaggttgg ggatctagag agctggggag

30

<210> 186
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 186
aaagggggtg ttagtgaggg gccacaaaag

30

<210> 187
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 187
gcaatcagat ttctctcaaa ccacgaacac 30

<210> 188
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 188
tttatcagga tatgcgtttt cctccaaccc 30

<210> 189
<211> 33
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 189
ccttaacaaa caaacagaaa aaaaagaaag gag 33

<210> 190
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 190
agtcccaata ttggaacctt aatgcaaaaa g 31

<210> 191
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 191
atcttggtgc atcctgagag aaacagaatc 30

<210> 192
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 192
caggcatcta cttgagaact gacaaactac 30

<210> 193
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 193
tgagaatgtg attgccgttc tgaaaacacc 30

<210> 194
<211> 34
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 194
tcttttctgt gtgcttgatt cttgcagata cagc 34

<210> 195
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 195
ggagaagggg agtttgctgg ggagacgagg 30

<210> 196
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 196
acacaatgga aacaatgggg aggggtgggcg 30

<210> 197
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 197
acctgccctg ccacctctgt tctccctgcc 30

<210> 198
<211> 35
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 198
cgcctttgag tcaaccaagc cccaagatgc acacc

35

<210> 199
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 199
accactaaga gcccctgtca ccctccagcc

30

<210> 200
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 200
ttccccattc cccagtcctc cccccctcc

30

<210> 201
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 201
cagatggaga cactctccct gggaaatgcc

30

<210> 202
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 202
ttttgccttc ctgctgcatg accagctaac

30

<210> 203
<211> 30

<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 203
ctctctgctc cacctctggc ttgacgacg

30

<210> 204
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 204
agactgcctc ccctccccta acccagaatg

30

<210> 205
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 205
agtgcccgagg aaagaccagg aaaatacaag

30

<210> 206
<211> 31
<212> DNA
<213> ARTIFICIAL

<400> 206
gggaaatagt agcgtaagct gtcaactcca g

31

<210> 207
<211> 34
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 207
tccatttcct gccatctaag caatgcagac acag

34

<210> 208
<211> 33
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 208
tggactgctt gctggtcgct tacatcactt tac 33

<210> 209
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 209
tcagaggggg gctggacatt gaatgtgaac 30

<210> 210
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 210
gtcaccatag gacacagaca ggaagtgggg 30

<210> 211
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 211
tagaaataac gaccaaaagc ctcccctgtg 30

<210> 212
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 212
ttcaagctgt cagggacatc atgttgagag 30

<210> 213
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 213
tttgtatgtt attaccctcg ttgtgccatc 30

<210> 214
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 214
tctcagcctc agaaaatgct tatgttgaag 30

<210> 215
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 215
ttttttccct cctggcctca ctcttgcaac 30

<210> 216
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 216
atagaaggaa gcaggacaac ggggacagac 30

<210> 217
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 217
cggaagtcaa cagtcactga cgagtcggag 30

<210> 218
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 218
agagtatagg gaccagcagg aacacggagg 30

<210> 219
<211> 30

<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 219
gcaccagccc ttaccttcct cccttcacag

30

<210> 220
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 220
atatggtagg tgctcaccac atgcaggccc

30

<210> 221
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 221
cctttctcta caccctccca cctgctgctc

30

<210> 222
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 222
cacccacctc tccctgcctc tagtctcttc

30

<210> 223
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 223
ccctacccca gatcctgagg attcacatag

30

<210> 224
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 224
gggacagtca gaaacatctc tgaaaccctg 30

<210> 225
<211> 33
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 225
gctcagtgtc ctcccgtctc cctgtttctc ttc 33

<210> 226
<211> 35
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 226
actcagcctc taatcagcct ctctgtctcca cccac 35

<210> 227
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 227
taatgtatgc ccacaaatct ccagcgaccc 30

<210> 228
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 228
tccagcacca tctctgaaca actacatgcc 30

<210> 229
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 229
tctaagacca agtcgctaca ctcttaactg 30

<210> 230
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 230
cttctttcaa ccataaaagc cttctctctc 30

<210> 231
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 231
ttcagcgcca gcctcttcgc tccgtccaag 30

<210> 232
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 232
tggtcaggtg tgggtcagga gaccccagcc 30

<210> 233
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 233
gggtctcaca tgtagcattc ctgggcacac 30

<210> 234
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 234
gtcctcccat tcccatccct atccccactg 30

US33026.ST25.txt

<210> 235
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 235
caggttaaggg agatgagacc tccagacaac 30

<210> 236
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 236
ccaaatacag acacagcctc aaccccatc 30

<210> 237
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 237
cgcaggaaat aggcaaacac aactggaag 30

<210> 238
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 238
ggaccctaca ctggatgggt tttagcagtc 30

<210> 239
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 239
atccacagct ttgatctagg gaaaataaac 30

<210> 240
<211> 30

<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 240
tgtgttgga atgcaactta aattgaactg

30

<210> 241
<211> 31
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 241
tatagacacg tgacaaagta gctgaaagac c

31

<210> 242
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 242
tctgtttctg tgtatgactg caatttaacc

30

<210> 243
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> FORWARD DNA PRIMER

<400> 243
catgctaaat tcatgggcca tattttcaac

30

<210> 244
<211> 30
<212> DNA
<213> ARTIFICIAL

<220>
<223> REVERSE DNA PRIMER

<400> 244
gatgcaaaat gttcatctca catcacaatc

30

<210> 245
<211> 3026
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1843)..(1843)
 <223> n is a, c, g, or t

<400> 245
 caatcagatt tctctcaaac cacgaacaca ggggtcggta tctgaggcgc cggcaccaga 60
 cacggcaggg tctgagtgtt ccctgacaag cgatgatgag caggcttgga gccatgccag 120
 tgacacgcct aggaaggttc acgcaccgcc cagcacgcct gcgcatgcct gttcccgcctc 180
 cctggtgccc cgggcgcctg cctgtcccgg ctcccatggg tgctgggtgt gtggaagctc 240
 cggccccctc gggctgggtt cattgggggtc ctccctgtgtg gtcagtggac tctgtacccc 300
 cacagcacct gaggggtggc tgacactgct ttcccagctg ctgcaggggc tcaggggaaca 360
 caggtgaccc cacgtctcta ccgagaatga gcacaccaac acctctcaga agacagctgc 420
 agcctgcaga gggcagtgga cccacccag gccacggtg tggacggctc tgcctcggtc 480
 tctgctgagc caggcccaga gggaccccag gtgagcagca aacccccag gcctgggcta 540
 gcaccggggt aacccttcct gctcagcacc tgttcacctg tcccctctgc tgggtggcctc 600
 ctgtcctccc gctctgggtc cagcagcagc cccgtggaga ggccctgcca ccacccgcc 660
 ctgctggaga caggcctcct acgcgggctc ctgcagccgg tcgccctggg cctcctagaa 720
 gccggggatc ctctgctgac caccggcaga aaacgtgctt ctcaagctgc aggtgattca 780
 ccagtagtgg gcaaggaact gaatgtggtg attactgcgg agtcagcaaa acccgctga 840
 gaacgggcag ctgagggcct gccgggtgag ggaagcctca cggttcctgt ttcattgagtt 900
 tgctgtgagt gcacacgagg ctgtggctgt ggagtgtgca acagtccacg cgtgcctgcg 960
 tgtgtcatg tgcgtgtgtc caccagcttg tgtgcacgca tatgagcgag tgcgttttgc 1020
 tcccagcttg gtcgcagcga cggcgcaggg aaccccggtg gaggccgagg accgggaagg 1080
 gaggaggggg ctccgaccca tcggacttag gggagccccg ggtccgagac gccgcctctg 1140
 tcccttcaag agtcgagcct ggcgcacagg gcagggacgc ggggtccacac cggccggcag 1200
 ctggttcccg cccatactcg ggtacgccgc tgcgaccccg cccgcctggc ctgcgacgac 1260
 gctcagggcc agcgggggtg acggtcccag aggcagaggc gccgcagccc cagagtcccc 1320
 atccctgcgc ggaccggcaa cccagtgca ccaagaggcc ctaacaccga gccccagca 1380
 ccgagtcccc agcaccgggc cctcagcacc gagtccccag caccgagtcc ccagcaccga 1440
 gtccccagca ccgagcccgc ccctctgggt ccccgccccg cccctctccg cgcctcaccg 1500
 ggtccgctcc tggacgcgct cctctgggat gcagcttctc cgcgccccgg agccccagga 1560
 aaatgaaaga cacgagaggg aggggcccag gaggaggcgc ggacccgcgc gggacccacc 1620
 tcccagatga ggaaggagct gggtttacgg gaagcctcca agtttcggga accacccgcg 1680

US33026.ST25.txt

ttcacaacaa	gcgtgacggt	gaatttatta	ttttcacggg	aggccagcac	tcgcggttca	1740
cgctaaagga	agcaggaaag	ccgccgggag	catttttcca	ggagagttcg	tgcttgggcg	1800
ggtccgagca	tgcgtgcggc	ggcggttccc	gcggggctgt	ttnatgccgc	tcctggaggc	1860
ctcgagtctg	tgcacggggc	gagctggggc	gccgagtggg	ccgcggggag	ggagggcggg	1920
gggcggcccc	agatgccttg	gagtgcgcgg	gcagagttag	ctggaccccc	ggatgcagag	1980
gccctttcat	aaaagcgcgc	agagcagagg	agtgatgtcc	cccagctccc	ccgcagaggt	2040
cctgcacctg	cggcctgggc	ttcagcgtcc	tgcgccccct	gcggaggtgc	tggcctggcc	2100
agcccgggag	gagggggcca	gcctgtttgg	gcaggagatt	ggggtgcggg	tagaaggctc	2160
caagacgcat	ccggggccggg	aaccacacaga	catcccaggt	gggcaggagg	tggctcgagg	2220
aggcctggag	gacccggcgc	ctggcggggg	ggcaggcggg	ccacgtcctc	cactagaacc	2280
cgagggggca	cgcgggcagg	tgcgggcggg	gtcaaggatg	accaggtatc	ttcgggacac	2340
taggaggagg	ccccacaggc	tgcagtcacg	tgagtgggca	agtccccacc	gggcagatga	2400
tgggggacac	tggggcgttg	gcaatgcccc	cagtttcatg	gaagagagga	agaagcagaa	2460
ccaaactccg	ggaaaccctc	aaatgtgggg	aatggacgga	gcagggccag	actggacgct	2520
gaaccttgga	gcctgcagct	cagccatcag	accagggtc	cagaggtggg	tggcacagaa	2580
caaagtcccc	cgggatgttc	caaaagagaa	actgtcgcca	aattggcagg	tgaaacacag	2640
cctgtcatcc	tcccagcaag	acggcaccat	ggccggggca	cagaggtcag	attccccagc	2700
ccccgccctc	gggaaacccc	agccaccctg	gctgccagtg	agatgctgga	gagggggctg	2760
aaatcccacc	tgcccacgtc	ctctgcacag	aggggcttgt	ccccgaggcc	acatccccca	2820
gcagccacag	cttccttctc	cttttttctc	gcctactaga	tctctcaact	cagagggggc	2880
tgcagttcct	gggggcaggg	gggtccggct	gcttaggcag	gagcacctgc	accgtgaggc	2940
tctggagggc	agctgaaggc	tggcaggctt	ttgtcccgtg	aggggacacc	actggggggt	3000
ggaggaaaac	gcatatcctg	ataaag				3026

<210> 246
 <211> 2368
 <212> DNA
 <213> Homo sapiens

<400> 246						
aatcttgttg	catcctgaga	gaaacagaat	ccaaacggat	gttggccagg	gtattattca	60
aggaggtcag	atcatctgtg	tgtttggtaa	gggtatctgt	gcaagtggtc	ctgacttcat	120
ttagattgct	ggtcagcgtc	cgcagggtgg	gggctgtgta	actgatattg	ctaatgatgt	180
tcacaatatc	cgtctcaaag	agctggaagc	gttcctccag	ttggttgaac	ttgatggctg	240
ttctattctc	tgcattcttg	tgtaagtcct	gcagggtctt	caggttctgc	tcgttggctt	300

US33026.ST25.txt

gagagatagt ggtgatgttc tccatctgac ctgtgaatga gttgagctgg ctgttcatat	360
cctccagggg gtcgttgttg gctttggcca acgcagagtt gttggcagcc agcgtctgca	420
agctctgcac tttctccttc agccaatccg tgtccttctt ggcttgaaga aaaacctgct	480
gcagatTTTT aaagtcgttc ttgattcgct ggatagcctg gcttgtgtca tccacagacc	540
gctgcagatt cgtgatgagg ttctctgct gcacctgggt caggttcagg ttgttgaggt	600
tcatgatgac cacattatga gaatacattt ggttctgacg attgccctgg agcacgctgg	660
tatcttgctg cagattcgctg acatagccat tatacgctg gagggTTTT tttacagtgg	720
tgatgaggaa agagttattc tccaaagttt ctttcaattg actctgcctg tccaccagag	780
catccccgct cgcctgtaac ttctccagcg tatccttggt cttgctgggt ttttctgtaa	840
tctcacgaag ttgctgacgg agatctagaa tgtctgatct gaaggTggag agttctgagt	900
tggtgctgat agctttcttc ccagtttggt cacctggaat aagaaatattc tgtgacttat	960
attggtggta tggagaagtg ttcaggcaag gccaaagatc ccgaacacac ttaatcggtta	1020
tgcactgtat tttagatgca aaattggcag tataagcggg cagctctgca ttagtaaaat	1080
gtacatatct attaaaactg ggtcctgggg aatcggaaaa gaagctcaga actaggaatg	1140
acaaacttgg ctgaacattt ttctcaaaga gggaggggga atttactaga ttttagggca	1200
gtgggcaggc tgtcaagaag aaactaacct tttaaatttc ccaaattttt ttttaatgaa	1260
agcaaaaatc aaggaataga atatgctagg atctttcact ttataactta atttctacaa	1320
ttctatgtag tttaaagtat ttcaaaaatg ctcagtaaatt tcctatttat gtgacagttt	1380
ttaataaagg gtatttgtgt tttttttcag tcaggattga tcttcagata ttatttggca	1440
cataatagtt ttcttggcag gacttaattc caaaactgac ccttaacttt aaaatttaag	1500
catttgaatt aaatcatgag gggagactca acatgcaaca caaaaattga atgtccttcc	1560
gggtgaatgg ggagtttata gcaacatcat tctaagaagc tgtggtcatt tatgtagagt	1620
caggggattt catggtttag tcttgtcaca gattacctaa ttttttcagg tcactttcca	1680
ctgctgtgag cttgtcatca taggtttggc gagatgtttc catgccacct gtgacattgt	1740
ccattttctc tacaactaag atttggaaaa tgatgcatta gtatacatat ctgctcatat	1800
tttatttttc agtttcaaaa caagagatca tttcattatg gaacaaagga aacagattga	1860
acgaaaacag tgtaactgaa atcaaataata ggaaagaaaa gccatctttt tggaaaaata	1920
acttacttgt cacaaaaccc aggggtacaa ttacttagt tgagaattgt atgttcttaa	1980
ctattcttat gattctgtaa tgccttggat gtttcagaaa tcatttggaa ctaatttaaa	2040
aattttcatg catttttagaa gtccctaata tgctatttcc tatattaatt tccatagatg	2100
aaggcaaggc aactgtgat aattttacaaa atgttgtcac tcatcagctt ccctaacatt	2160
cttggcaggt gggactcatt tacctagaaa aggattccat tggcaaggaa aaccagctc	2220

US33026.ST25.txt

aattctatat	acaaaatcgg	catagaaagg	ttgcaaagtc	aagagtgtct	gccactttct	2280
gttatgagtt	ccaccacaag	gccctgaaaa	tctgcttttt	gttagtgaca	actgattctg	2340
tagtttgta	gttctcaagt	agatgcct				2368

<210> 247
 <211> 2022
 <212> DNA
 <213> Homo sapiens

<400> 247						
gcctccagca	acctctgtct	gagttcccca	aagcttgcag	aaatccacat	agtggatcct	60
ggggtgataa	tgtcctacct	tggaggccct	gaggaaataa	aaccagctgg	agatagtaag	120
atcccgctt	accagctagc	tggaactacc	caactttcca	caggatacaa	tcctggccat	180
gtgctccag	aaatcatttc	cctccgattg	ccagcactct	tgcttactac	gaacctttct	240
ttctccttcc	ctacttctgc	cacgccacct	cctgctaccg	cctttgacac	gccacctctc	300
cctacgtgtc	ggggagggta	cagagcctct	ggaggcagca	tggtgggaag	ggaaggcact	360
caccagggtc	agtccggatg	ccacatcctg	cacagcggta	attctgcttg	gccacggcaa	420
ttttcctcct	gaggaagggg	aaggacaggg	cattggcaca	gagcagctgc	gtgagacctt	480
ggaggtgtga	aggagtgagc	acacatacat	acagctccag	ttaagtatgg	gaagagaggg	540
gaattcacct	acattttagt	tggacaaaaa	tgaacctatt	gggagagcta	actccatata	600
agatttaggt	ctaggcagtc	actctgcccc	gtaaggaacc	acacattctg	tacaaatata	660
aggaatgaga	tgtggtaaag	gagagagaat	gacaggagag	aagagcatcc	atctatctta	720
gaaagagaag	aaaaaccagc	aagcccacac	aactactggg	aggaaagcta	caggttggga	780
atgccagcaa	aacaaaaccc	gcctcgtttc	caattagctc	caggaattaa	gagtaagaaa	840
cgaaggacca	aatggacgac	gccccccctc	tgcttttaaa	tgaagagaac	ggtgtgggaa	900
ggacagctgg	aggcagggac	aagtgggtga	gacgaaaacc	ctgacaatcc	aaagaggacg	960
gatctgtgct	ccaaagggca	cagacactgg	ccactcacgt	tggggctgga	tgaacattaa	1020
aaattatctg	aggccggggc	ggggcccact	ccaagttgcc	acgaacacga	atccgcagct	1080
tgtagatgtc	agcgtgctgc	ccgtcatccg	gtgagatggg	cagtgagtca	ggaatgggca	1140
ggagctgcag	gaggaaagca	cagttggggg	aagctcgtgt	cagtgtgctg	cccgtcatct	1200
ggtgagatgg	gcagtgagtc	agggatgggc	aggagaaaaa	cacagttggg	gtaagttcac	1260
acggacgggc	ttgagaaaca	gaaatgcggg	acccttttgg	ccatgacaga	gcataatgag	1320
tgaaagacat	ttcaggaaca	ccacaggata	agggcttcag	ggaacctcag	aaacaaccag	1380
gaggcgccaa	ggtactacaa	gtgagggccg	tgggttccaa	gaagcaaaca	gaaacagcct	1440
accagggcag	tggccccacg	gctcatgctg	tccctgcacc	catcccagga	cccttgctgt	1500

US33026.ST25.txt

```

gccagtgtgt ttcattgcctt aaagacaact gcagagcaaa gaatccaagc gatttacttt 1560
tgcgtagtgt ctccgaggtg gtcacaaacc aaacatgact gagtctggcg agcagtcacg 1620
tgaataagga ccgcgaacgc gccgtcatct ctgctctgac aaggtgagca agcattcact 1680
cgttcattta tcaattgaca cattgtaatg aatggcttcc acgagtaagg ggggaacacc 1740
caggctcatt ccagactagg gacatgtgac gaaggaaaac aaggtcacag aggctcacga 1800
tggccccctg gtaggaagaa gagctaagga cctaccttct gaggggcatc atgctccggg 1860
acaagccact ccagctccga ggcggctgga agctgcatcc cctcaaactg cttcaggagc 1920
cccatggcca ccgcctcagc agacgtggag tgcaggaagc agtgggagct ggaaagggga 1980
gaatcaagga cggctgaaca cagggaagg atgggcgatg cg 2022

```

```

<210> 248
<211> 2152
<212> DNA
<213> Homo sapiens

```

```

<400> 248
actatcttca tctctcttcc tataaccccc attgacacgt gaatcagcgt ttctcagaat 60
actgcagggt tggagtgtgt gtggcggagg agggcggagc agcgtggaag gtggagaggt 120
gggcgggtgtc ggggatatca gcagggcagt gggcattgga ggggtgccct tggcctcagc 180
cacagggccg ttccagagcc ctgctggggc gagggccagg cggcgcgtga tgggtgccctc 240
cgagaagcac tgggaccagc aggaaaggct gcctgccggt gcgcaggaaa agggaagaga 300
gccggggaat tgctttttga cccgtaaggg agcgtttctt ggtggatggg gaaatcaaaa 360
aattgactac ggtgtagtca gctacatcgt gtaccaattt tcaaataccg gtgagatcag 420
taaaaagaga aagggaagga gatcacagat agcatgaaac caagccatca ataataagag 480
taccactggt tactgagcag cgtctgcttc taactgactt tgctggggga ggggcgggac 540
aggtacaagc aaaaacagca acgacagcgc agcagttgct tcatgtgagt aataattgaa 600
tggtagcagg ctcttccaca ttcattgtatt gaaggcccaa gtgcggccaa ggtctccctg 660
gttctctgagg tttgtttcat gctgggttcc ttataactcca gatgtcggga gggaccctca 720
ggggccgagg tgccacacc tgtgtccctt gcatgacaga cttcctgggg tcttggtctc 780
cagtctgtcc tcatcctcta cacacacca aatgtggaag tcaccccccag cttgagtga 840
tccacacccc tcagaccatt ggccatgata ttacgtgtgt tgcaaaatat caaggattca 900
gctgagaggc tctcgcagtg gacggctcag aggccgagtc acacactgcc caggctttcc 960
ctggggggcc ctggcccggg ggcctcctgc ctttaagatgc ctttctctc ctccctcagt 1020
ctcccactgt cttcaactcg ggcctcact ctgcttatca tagaccccaa aatgcctctg 1080
ctcaaacaaa tggcttgacc tgttagcgat atagaaaagt gagcggatcc tttgaacatg 1140

```

US33026.ST25.txt

ttcgtttctc	cttttctcca	cccaccctgc	gccgtttccc	atttctctaa	gtgcctggaa	1200
tgtgtggaga	gtctcctgat	gatatgatgc	cagctgtgcc	cagctccctg	gaacacaaca	1260
tagggaatta	accagtgtgt	tcctctttcc	tccgttagtg	aaaatgagta	ctattttaata	1320
atgcagtgac	acaggatttg	ttgctgttgc	agcacttgca	tggccatgct	caccttcaca	1380
ccacgcggag	gccaaaggca	ttgttccctc	agctgcggcc	ctctcccctc	agcagccctg	1440
gccattccac	catggtgtag	tcctcctgcc	cttctccatc	cttctgaatc	ccattctgcc	1500
agctccaggg	ctgcacgccc	tctggaatga	ccaccgcag	ctagcccaag	ctgctcctgc	1560
tgtttatttt	ctttgcactt	tgtttaatta	tttcccacat	cttggtcctc	tctccttgat	1620
ttcagatgga	ttgctgaaga	cagagtgtat	ttgtggctcc	gctcaggctg	tacacagaca	1680
ggggcactca	gcatccgtgg	gtcgtatttc	attctagggc	caggagcgcg	ggctactgcg	1740
tcagtgggaa	agacgtggag	atgagttcat	atttacctat	ttcatggtga	aatctgcaag	1800
gtccctaagg	caatggcttt	cttgaatggt	gacagcaact	gatgagtctg	aaaaatcttt	1860
gtgtctcact	taggattttt	gcacagctgg	tttcataatt	cagttatttt	gatacaaaag	1920
cgttctgctc	taattagtaa	aaaaagacca	ggcgatagtg	tttgctcttt	gttaggtggc	1980
tgccccatcc	atgcctttca	tttctggagt	aggtgcccag	gaaatgttta	ctgagttgca	2040
ccagtgaatg	aactcatgat	gccgggatta	gaaggggaag	cccttgagac	ctccttctgc	2100
cccagttctc	agcgtccctg	gtgttcagta	agtattagct	ggtcagtgga	gt	2152

<210> 249
 <211> 2271
 <212> DNA
 <213> Homo sapiens

<400> 249						
catttctcag	aataatgaat	ggcaggaaat	accatagtta	attaataatt	gactgggttg	60
taattatgtg	ctatctacac	ccataaagaa	attgagaagc	tcataaaatg	cacatataaa	120
taagagttaa	ttatgtgaat	aagtttaaat	gtttttatga	caatttaaaa	ttattttact	180
tttataagac	ttccatgtag	gtactagcac	tttcattaat	gtgcttgcta	tttttcactt	240
aaatttttat	ctctatgaaa	acctaacacc	ttcgagaaac	ggattcatgt	gcacgtttct	300
gttgctaaac	tgtggcagga	acatcagacc	ttaataagag	aagggtgagg	aaccacaact	360
gcatatgtag	tattcacagt	aggagaaaag	tgatactaata	ataccatgta	gaaaaaaagc	420
acaacaaaat	aagataccat	ttagcacaca	cagacaaaca	tgtttgctgc	tttgtttctt	480
gtgactgaca	gacgctctta	cttactccga	gtctttgagg	taataactgc	ttggaagatg	540
gccgaagagg	aggtgttgac	atgcaagagt	ggctatttta	aaggagcacg	aaccatgggc	600
taataagcgc	ctgcgatgtg	gccacttcaa	gccacatgc	tgccagcacc	atgtcctcgt	660

US33026.ST25.txt

ctggcgtgga	catccaaggg	cggaggaaga	gctgaaccct	ccacaaaggt	tccatttgta	720
tgcagaaaca	atgtccacag	taggcgaggg	ttttctttaa	aatcattagc	gtagctaaat	780
ttcaaagttc	aagtaaaaat	tggtttttac	agattgggaa	gtcctcttcc	gttgtagcca	840
tcagcagaag	gtgtgtgtgt	tcaaggcaaa	gcgatcagaa	ttgagtgcag	aattgacctc	900
tgtcggaatg	ttccgcatcc	taggtctcct	gtccctcgct	gccactgcga	agtttgctgg	960
agacagactg	tgccttcacg	gtcagacaat	gccctcctgg	actcttctgg	ctttgtaatg	1020
tgctgctct	tcagccagac	ggggccttct	ggaaggagtg	aaggccagta	gtcagagatg	1080
ctggtgcaaa	cctatgctct	gtcattccca	gactcgggtg	tcttggtgta	atcctctccc	1140
tgctctgttt	ctgggaataa	taagaacctg	tcacttctgt	ctttgcgggc	tgctgtgagg	1200
atggtttgct	atgctgtaat	atgaaaggac	catgcagatg	ataaaatgac	ccacagaaaa	1260
agctggtatt	ctcattatca	tcattttaaa	tactacaggt	gaactttctg	tgtaagtaga	1320
ggttctttgc	agaaacattt	ttgttttaaa	tttttgaaaa	gactttatcc	ttgaacagaa	1380
tatgtggcag	agggatttgt	ccgtattcat	gtctcattac	aaacatctct	tctggttaaa	1440
aatgcaaagt	cagctgacag	gagaggacag	atgcttggtg	agaagccttc	tgactgtcat	1500
cctcagctgc	ccctcagcag	taactacaaa	gcctgcttcc	tcaaaagcta	ctcctggtat	1560
ttgctggggt	gtgccctctt	cttttttttt	tcttcttttt	ttgctttatg	cacaaagtga	1620
gcagcacaaa	ggcatgatct	catggccatt	gtagcatggg	caactttggg	ttaaattgct	1680
ttggtctcta	tttaatttgg	ttatttttct	cccacatgct	tttgactgtg	ccggaaaatg	1740
agctttttca	tgattactct	cagtgtgctg	agactagtca	gcagcgttga	aagattcttt	1800
gtttttgcac	agccagccca	gggctcacgg	acacacttta	atatcctgca	tccacactcc	1860
cttttccttt	gtgtgtaaat	tcccgagaat	gaaggaaccg	ttttaccccc	tcatgtttca	1920
ggatgctttg	ctaaggcgag	aacctcacag	tacatgaaag	cacctgtagg	gtcctgtctt	1980
gaggagccac	ccacctatgt	ctgcatccag	tccgctcctt	tacaagatta	aagtggcccc	2040
gctgagacac	tgcttttttag	aaggtaagtt	acactcagaa	aagtcttatc	tgaaaaatcg	2100
tgtttgactg	ttaacagatc	taatgttatt	ctttaaaaaa	atatagtcca	acttatagaa	2160
atctctcatt	gagagactat	ctaaacagtg	aacagtgacc	aaacacaagt	cctctgttag	2220
ggtaggaaca	gccgcacaat	cacaatctga	gaatgtcttg	aaacatgcac	a	2271

<210> 250
 <211> 2949
 <212> DNA
 <213> Homo sapiens

<400>	250					
aaactgtgtc	ctgacacccc	cagacctgct	ggccagcagg	gaggggcctc	tcagcatctg	60

US33026.ST25.txt

ggctttctcc	ttgctcaggg	aacaggagca	cagctctgag	aactaaggat	gggggtaagt	120
gagctaggcc	ctcaaggcag	ggcacttact	aggtggaaaa	aacagcctgg	aagctcatgg	180
gcatgaaaat	gaggtccatg	gagagagctt	cctctgtggc	ccagaaacta	gaagctggaa	240
cagccatgtg	gaactgtgca	gcagcccaga	acaggatatg	ggggcctaag	tcacagcaga	300
ccagtggagag	gagaaagctg	acctcagatt	gcagatctgt	ataaagaaaa	gtagggtggc	360
gggggagcct	tgggttcaaa	ttctggaaca	ggagggacaa	agaagggcag	ggaattgggtg	420
gtgatgagta	ggtaccactt	ctggggaaga	tgacagagca	actggacctg	aaaaactctc	480
gacttaccta	aaatatcaat	tacagccagt	gacaaagaat	tcacgccaca	caactcatta	540
ccaatcaaac	aaactactat	ggttatctca	aaccaaactg	cactttactt	ttttggtaac	600
ttttcattat	aataataaac	tctattcatg	aatatgcagc	ctccataatc	ttctcccttg	660
taacaaacgt	gcagtcctgt	cacaagctgt	aaaaacaagc	caaaccctaa	gacatcacaa	720
gaggcaagag	cagtggcagt	gagaagggag	cctgtaaagg	atgtttcaaa	ggaggggtccc	780
aggctatgtg	gccactggat	gtaggcagtg	agctgagtcc	aggctttcgg	tctgggaagt	840
ggcagaggct	gagacaatgg	caaagagga	gttgagagg	aaactatgct	cggtttact	900
cctgccagcc	caacagccta	ttccctggtg	tgaatcaact	ggtgtttgat	caactttgat	960
cgctggctga	aggctttccc	acaagcagca	cagtcatagg	gcttcacccc	agtgtgaatc	1020
ctctggtgct	ggatgaggac	cgaacgctga	ctgaaggctt	tcccacactc	actgcatttg	1080
taggggcgct	cgcccggtg	gattatctga	tgctgaatga	ggtgtgagct	ctggctgaag	1140
cccttaccac	attcaacaca	ggtgtaggg	ttttccccag	tatgaacttt	ctggtggtga	1200
atgagatttg	agcttcggtt	gaaggcttta	ccacactggt	tacattcatg	gggcttcagc	1260
ccattatgaa	tcctctgatg	ctgaatgagg	gttgagctct	ggctgaagg	ttttccacat	1320
tcagtacatt	catagggtct	ctctccagtg	tggactcgct	ggtgaaggat	gagggttgag	1380
ctgcgaccaa	aggctttccc	acactcgtag	caggcgtagg	gcttgtcgcc	tgtgtgcacg	1440
ccctggtgct	gaatgagggc	tgagctgtgg	ctgaaggcct	tcccacagac	actgcactctg	1500
tacggcttct	ctcccgtgtg	gatgatctgg	tgctttcgga	gactgagct	ataactaaag	1560
gcttttccac	atacattaca	cacgtgaggc	ttttctccag	tgtgaattct	ccgatgctga	1620
ataaggctgg	agctctgact	aaatgctttc	ccacagtcac	tgacttata	gggcttctct	1680
ccagtgtgaa	ccctgtggtg	cttaatgagg	ttggagaccc	gactgaagg	cttgccacaa	1740
tcattacact	cataaggctt	ctctccagtg	tggaccctct	ggtgcttcct	cagggtgtgca	1800
ctctggtgta	aggctttccc	acactcgcca	cactcaaaag	gcttctctcc	tgtgtgagtc	1860
ctgtggtggt	tgatgaggtt	tgagcttcgc	ctgaaggcct	tcccacactc	actgcacaca	1920

US33026.ST25.txt

tacggtttct	ccccagaatg	gattctttga	tgttgatga	ggtttgagct	ccgcctaaaa	1980
gccttcccac	attcattgca	ttcatagggc	ttctcactca	tgtgagactt	ttggtgcttt	2040
ttaaggctcg	agttctggct	gaaggctttt	ccacattcat	tacacatata	aggcctctca	2100
ctgctgtggt	gactctgatg	cctagaaaag	tctgagtgcc	ctcggaaggc	tttcccacat	2160
tcgctgcact	ggtaagcttt	ctcactcata	tgagatcgat	gacggttttt	aagaactgag	2220
ttctggctga	aggttttccc	acaatcatca	cacataaagg	aagcctcccc	agtgtggact	2280
at ttgacgct	gaataaggtc	aggatttcct	tgggaaggttt	tcccacactc	attacatatg	2340
agtggacttt	cagctgtggg	aacccccctca	tgaccagtta	ggtccacact	gtgctggaaa	2400
ctctggccac	ccatgtcata	tggatgtggc	ctctcttctg	tagggatttc	ctgacatgcc	2460
atcaggtttg	ggctcagact	gaagcgactg	tcaaaaccat	tacagtccag	atctttctcc	2520
cctaaggggc	ccctaaggag	ccccatggca	gctggtgtga	agtccccctc	ctgggagagg	2580
gactgtggca	gcctcctgcc	ttcggggact	ccccagtctc	tttctgatac	atcatcacac	2640
agatctccaa	gctcgggtac	ctgggaaaca	tcaccagcat	agttttctga	tattttctgcc	2700
tgtgattcca	aatcttcatg	aatgtcttcc	ttgtgaagaa	actccttgtc	ttcagtcctg	2760
gtgtcacaat	ctgaaacaat	aaatagaata	tcacttgga	ggcagtgtg	cagcaggagc	2820
aggaacatag	acagtcacag	ttgcaccac	taactgtgga	ggaggcaagg	ggagcagggg	2880
atcctctggg	gtggcagtc	agatcagagg	gcatcagggg	gggggtgggag	gagcactggg	2940
tgattaggc						2949

<210> 251
 <211> 1754
 <212> DNA
 <213> Homo sapiens

<400> 251	
cactccatcc	ctcctggaaa aggactggac cccaattccc accattgctt ttttgggacc 60
cattatcttc	cttagcttcc tatgcatcta cagggtagtc tgggcttcac ttcctcagtg 120
tccctgtatg	aaattaggtg gatatagatt agtctgatgt aggaatatca cactgtacta 180
aggtttagtt	tgtatgttat tctctcaagt aactgatctt tcaatccaac taaacacttc 240
ctatgtgctt	taagggtggtg ggaattacaa gcatagcaag ttatgattgg tcacggattt 300
ctttcctctt	taaatggtga cctactgccc attgtaccta ctcaaagcaa ctttcttttag 360
gaaaaaagac	cacagtctac tttcctaagc ataaactcag ttctcattcc acctctacca 420
cctgcaagat	ttgttaggct taagcagtc ctttaacttct ttgagtgttt gttgccttgc 480
ctacttcatt	ggaagtaagg ctctggaaca ggggaaggttt gcctccataa gactaaaagt 540
tatgctaata	taagagacta gcaaaatggg agacatatcc agctctcttc ttgtggggaa 600

US33026.ST25.txt
taccttgccc ttgacaaaa gccttgcccc agaaagagcc gtgtgggtgt tggctttgtg 660
cccaacatgt ggctcctctg ccatgattga tggcttcatt taagaaacag gttttaggat 720
ttttccctt aaaatcttat tcctgttaat tatcatggat caactttacc ttagctcgtt 780
taatacacag tcacctggtg taaaagcatg tgaaaacccc cagggatcgt aaccacattt 840
atgcattgag aaaagagagt gaggccaaga ttttgagatg tgttcaaag caagaagctt 900
ttaaagtca aagtattcta aaactgttga aagttgaagc taactgttgt tcccttggtg 960
aaggtaaaaa gtaaagcatt tttaggaaag cacttttctt tatgtgtcta atatttgga 1020
actgcatagg agaacagttt aataggaacc ctgatattga cagtaagata tattctta 1080
gtagtaacca gaccaggggc agaatttgca aacctatggt aggcatacag gtggctgaag 1140
aagaatcggg acagcaagat ctactgaga tgcaattcca ttcctccatt tgatacagat 1200
taagatttct gaaaagacc atcctcctaa accctcatgg actctgcaga taatatgagg 1260
ccagaaaatg aataattccc aactcttgct atctcgttac tggccagtgt gtctggcttc 1320
tgctagtgtg tgccttctga agcgtaccct ataattattc agcaggata gtccagttcg 1380
tcctacttac tttagcaaga ttaccttctt ttiatttttc ctgtgaaaat ccttctcttc 1440
cttctttcct ccttgtctt tcctctttgt taacttttta aatctaaagt gccttgaaaa 1500
acttgtttac atagtagtaa gaaggaaaat gttgacttgt gctatcctgg gaaccttgac 1560
cttcctgcat tatggataaa tcatttcctt gcagggtggaa gtggaaaatt gcagatagaa 1620
ccacattgac tcacattctc cttctacttc catttgagtg agcaccaagt atgcatcacg 1680
acttgagatt ataaagttgg cttaatgatg agacaggttt ctgagtcggg ttttccattg 1740
gctcgaagtt caca 1754